

Report No. : 11

Test Time : 2023-11-17 18:24:07

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## Lisun Goniophotometer Test Report

### Product Info

 Luminaire Category : **PRODUCTY INFORMATION**

 Luminaire : **11W4P SE**

 Lamp Category : **UVC**

 Manufacturer : **PHILIPS**

 Submitter : **Philips Lighting**

 Number of Lamps : **1**

 Lumens per Lamp : **60 mW**

 Luminous Length : **265 mm**

 Luminous Width : **16 mm**

 Luminous Height : **16 mm**

### Electric Parameters

 Voltage : **219.90 V**    Current : **0.0460 A**    Power : **5.56 W**    Power Factor : **0.550**    Frequency : **50.00 Hz**

### Photometric Parameters

 Measurement Range : **UVC**

 Total Rated Lamp Radiant Flux : **60.5 mW**

 Measurement Flux : **60.5 mW**

 Efficiency : **100.00 %**

 Upward Ratio : **29.47 %**

 Downward Ratio : **70.53 %**

 Maximum Radiation Intensity : **8.96 mW/sr**

 Position Of Maximum Intensity : **C0° γ64°**

 Central Radiation Intensity : **8.67 mW/sr**

 Beam Angle (C0-C180,C90-C270) : **236.5 °, 114.1 °**

 Beam Angle (C45-C225,C135-C315) : **240.8 °, 252.9 °**

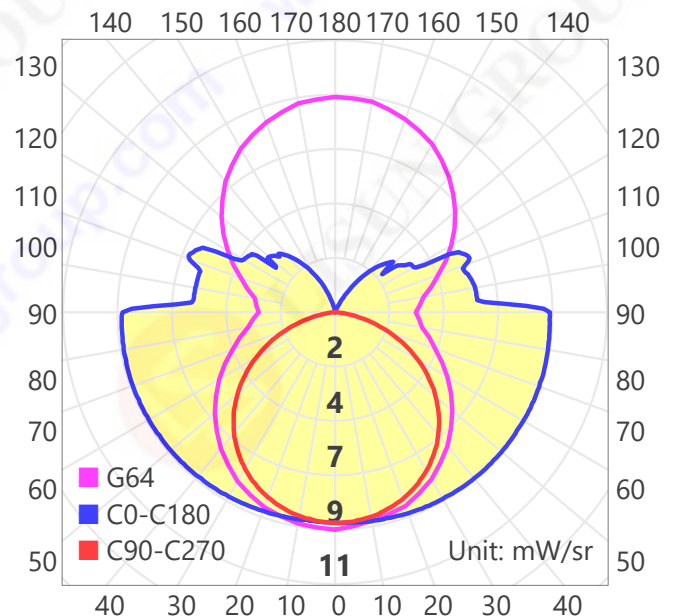
 Field Angle (C0-C180,C90-C270) : **307.9 °, 157.4 °**

 Field Angle (C45-C225,C135-C315) : **294.2 °, 295.2 °**

 Divergence angle (25%) : **H287.5 °, V141.0 °**

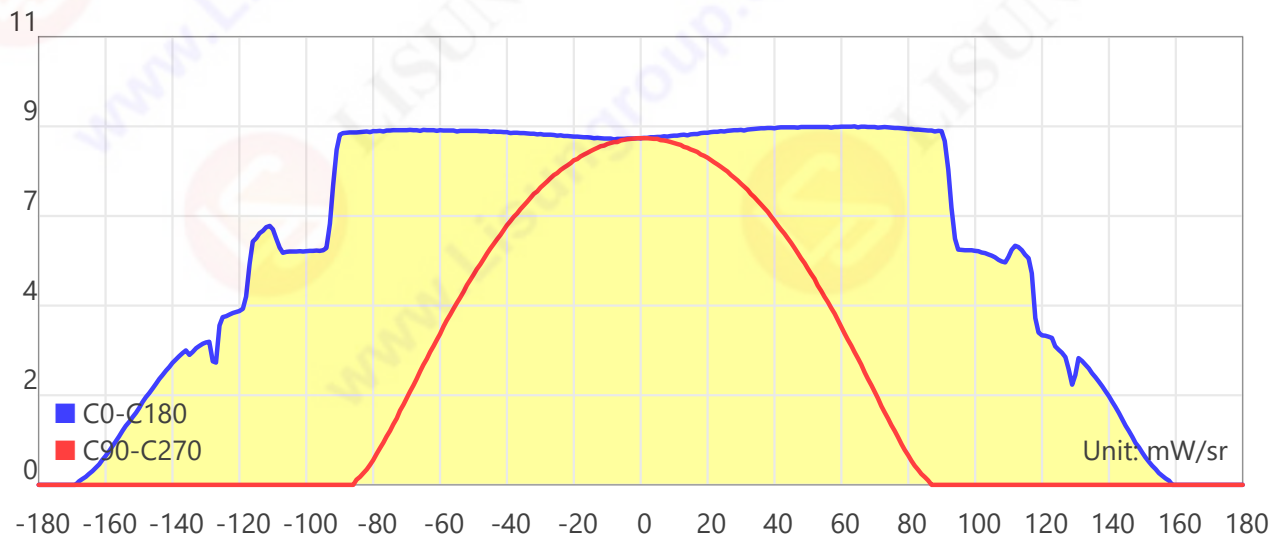
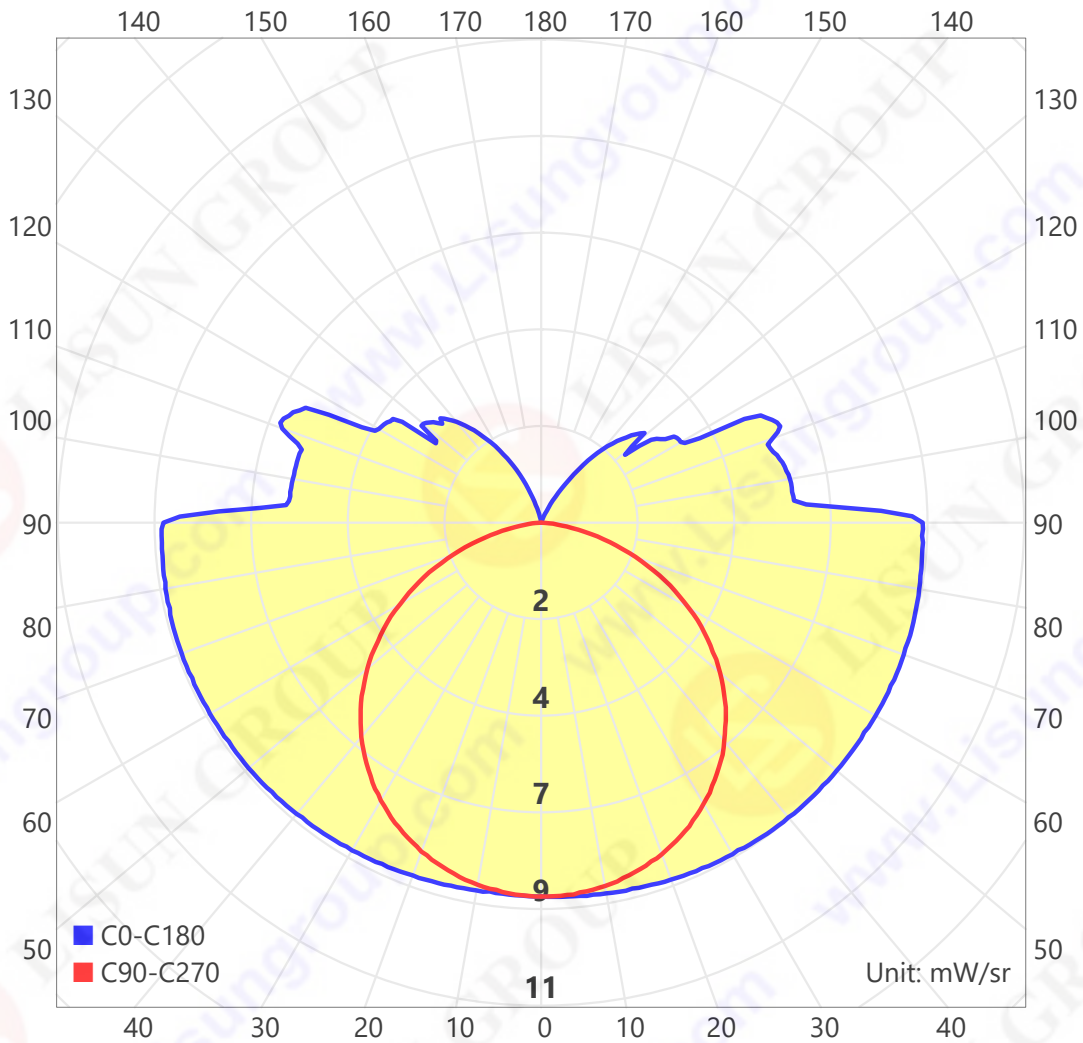
 Divergence angle (50%) : **H236.5 °, V114.0 °**

 Divergence angle (75%) : **H186.0 °, V80.7 °**

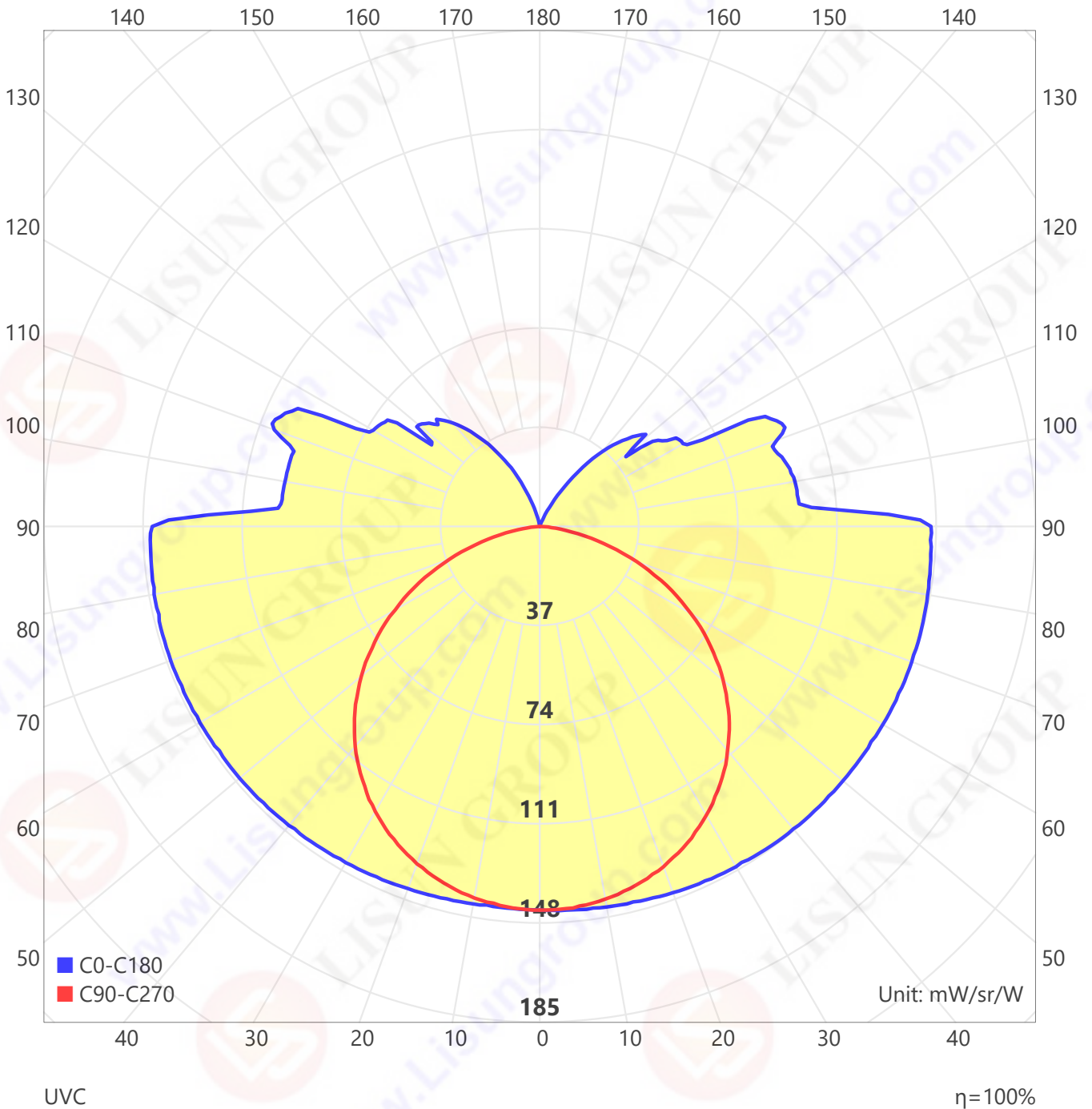
 Divergence angle (90%) : **H183.1 °, V51.1 °**

 Test Type : Type C    Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C    Humidity : 65.0%  
 Review By :

**Light Distribution Curve**



**Light Distribution Curve (mW/W)**



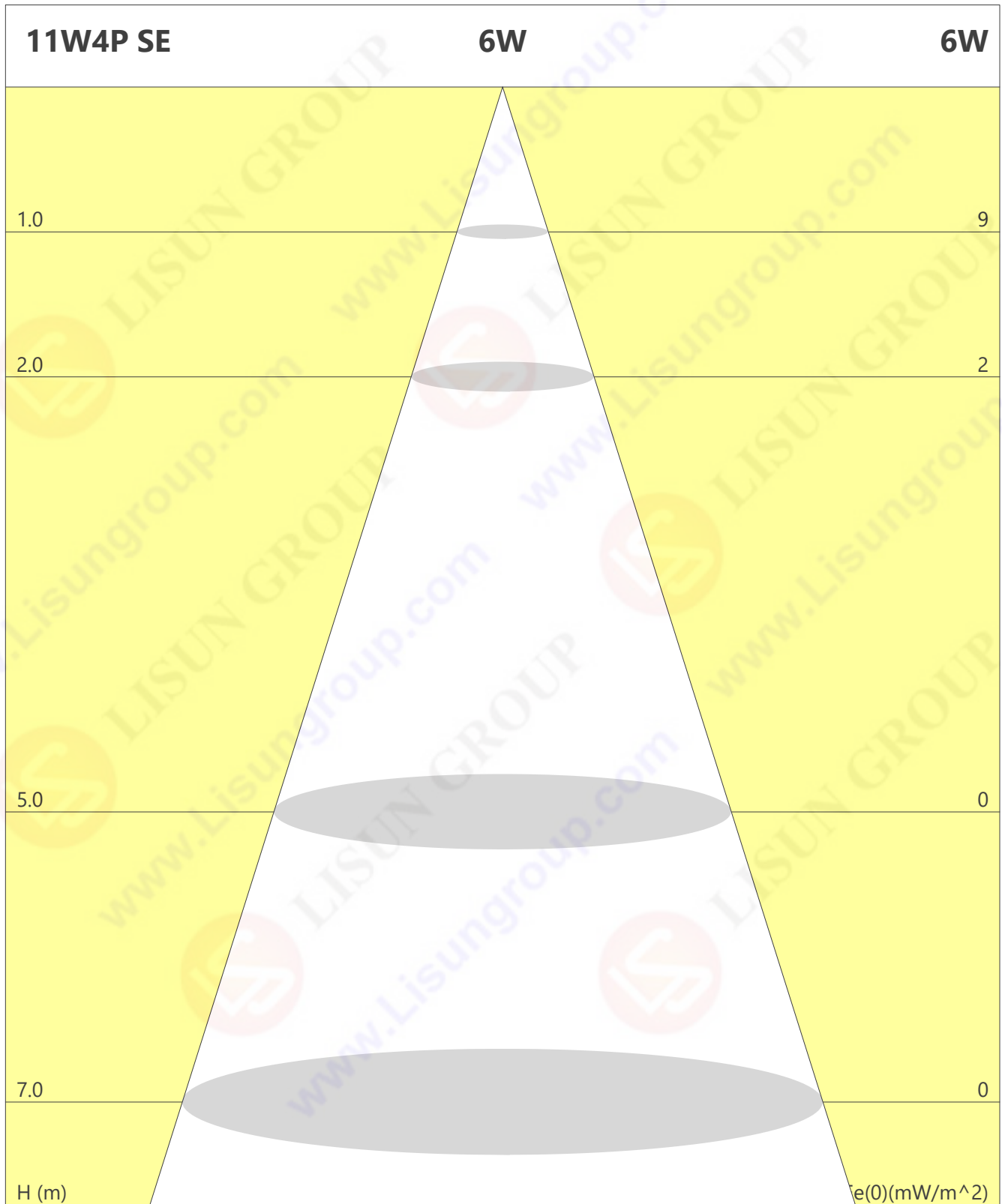
### Warmup Log



Stable time: 2:39

Uptime: 0:0

Parameters	Maximum	Minimum	Change
Radiation intensity ,mW/sr	8.99	8.51	0.48
Power ,W	0.00	0.00	0.00
Irradiance ,mW/m <sup>2</sup>	5.120	4.845	0.275

**Irradiance-Distance**

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 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

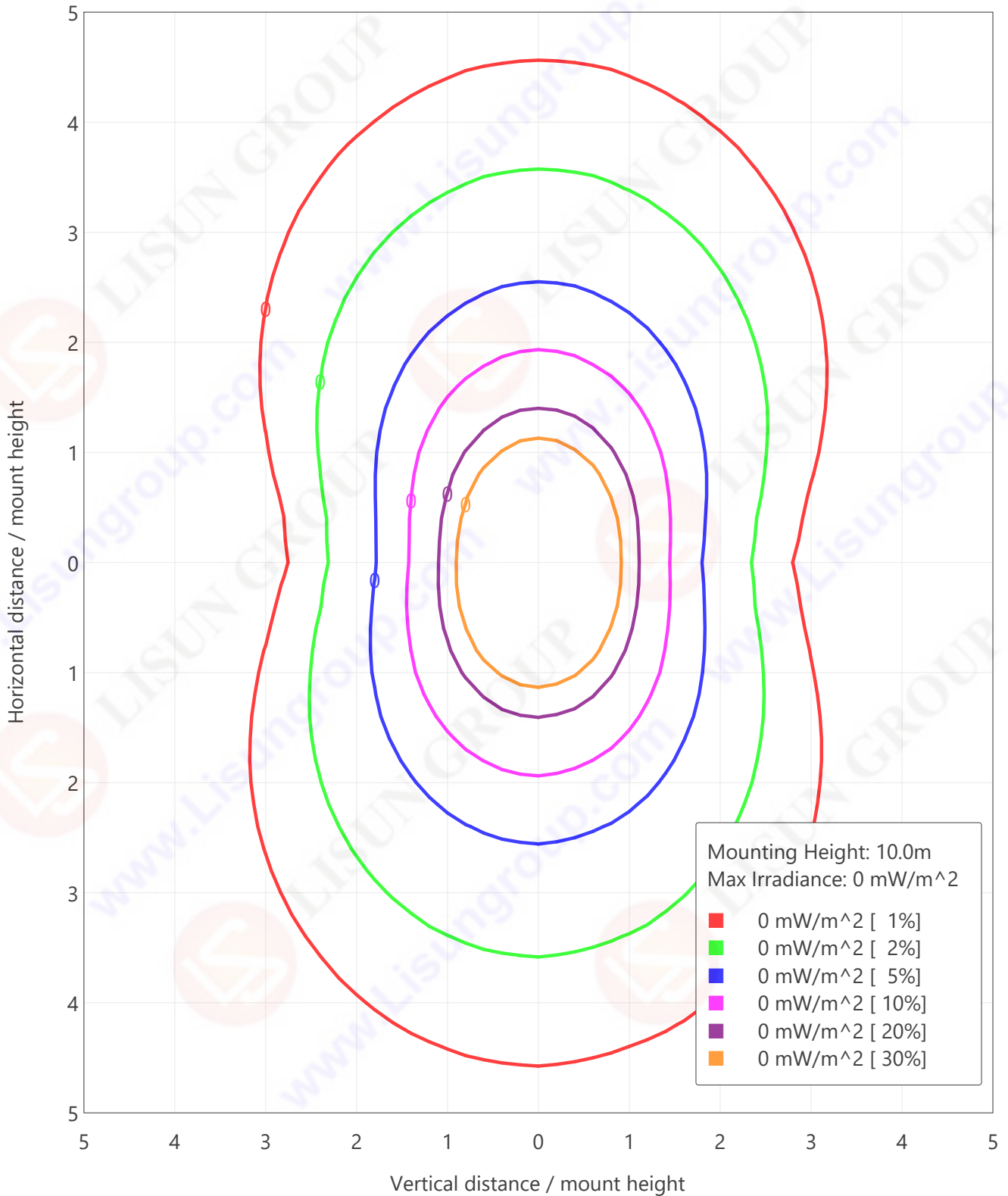
Test Distance : 1.325 m

 C Plane (°): 0.0-360.0:10.0  
 Temperature : 25.0°C

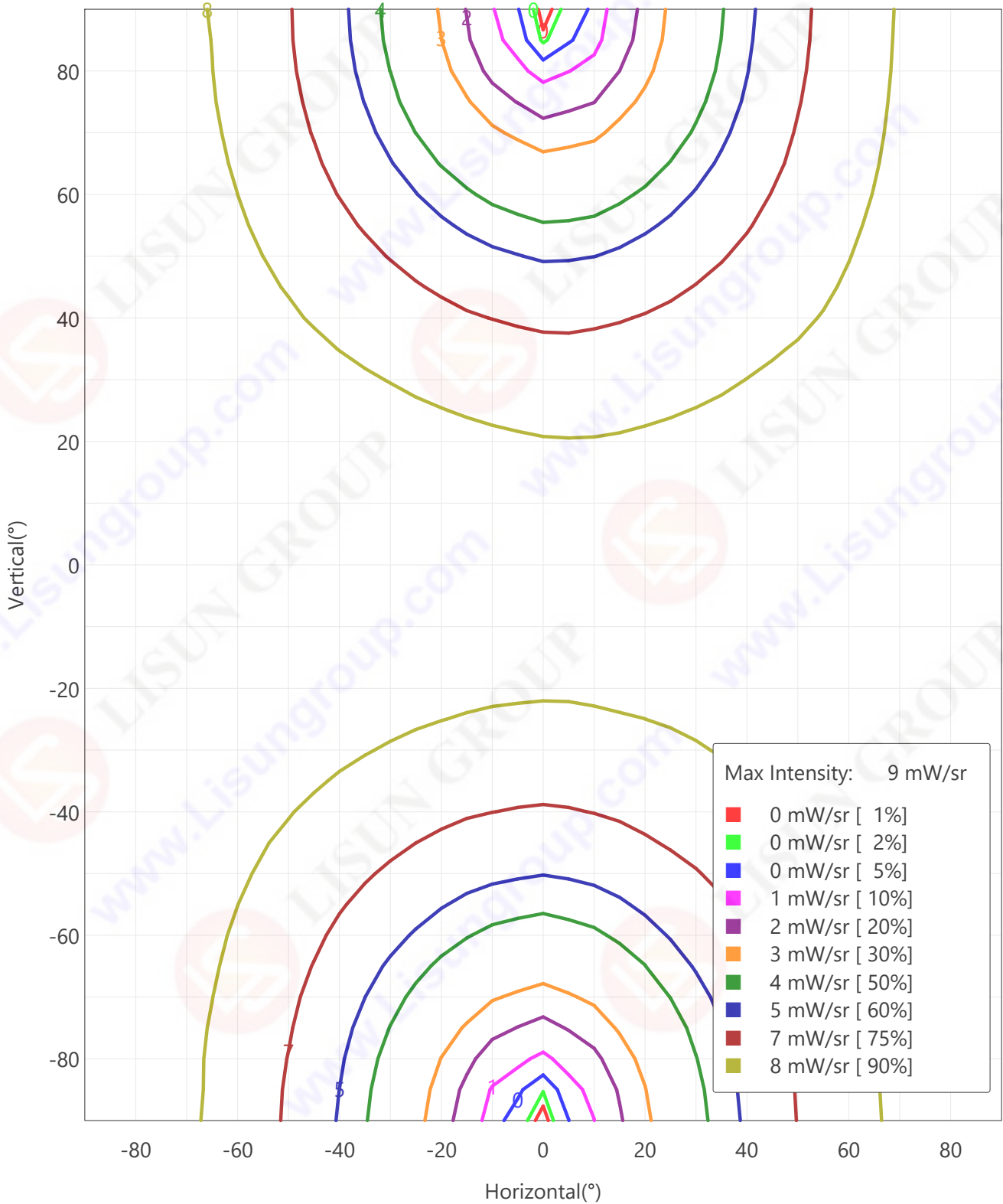
 γ (°): 0.0-180.0:1.0  
 Humidity : 65.0%

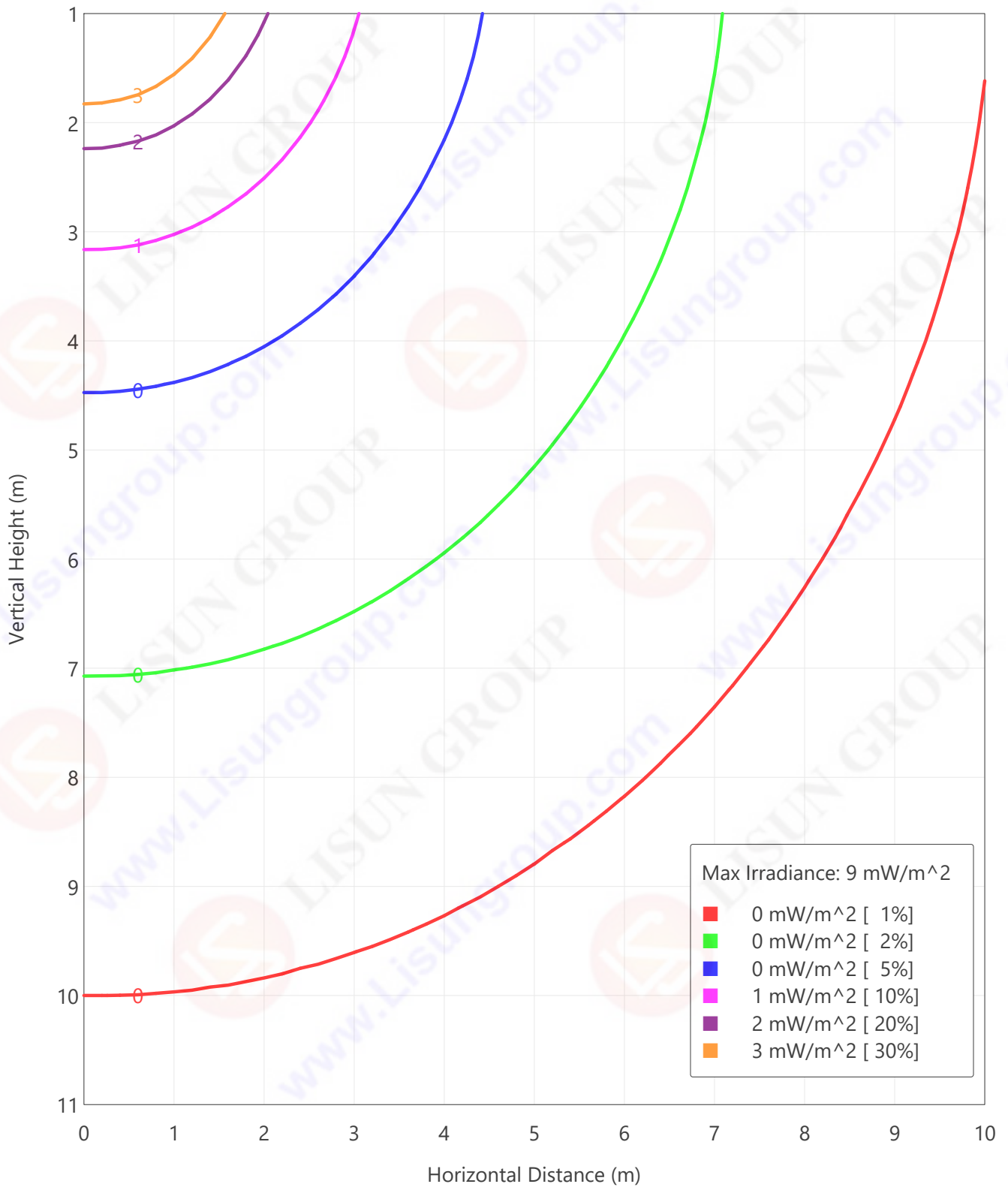
Review By :

### Iso-Irradiance



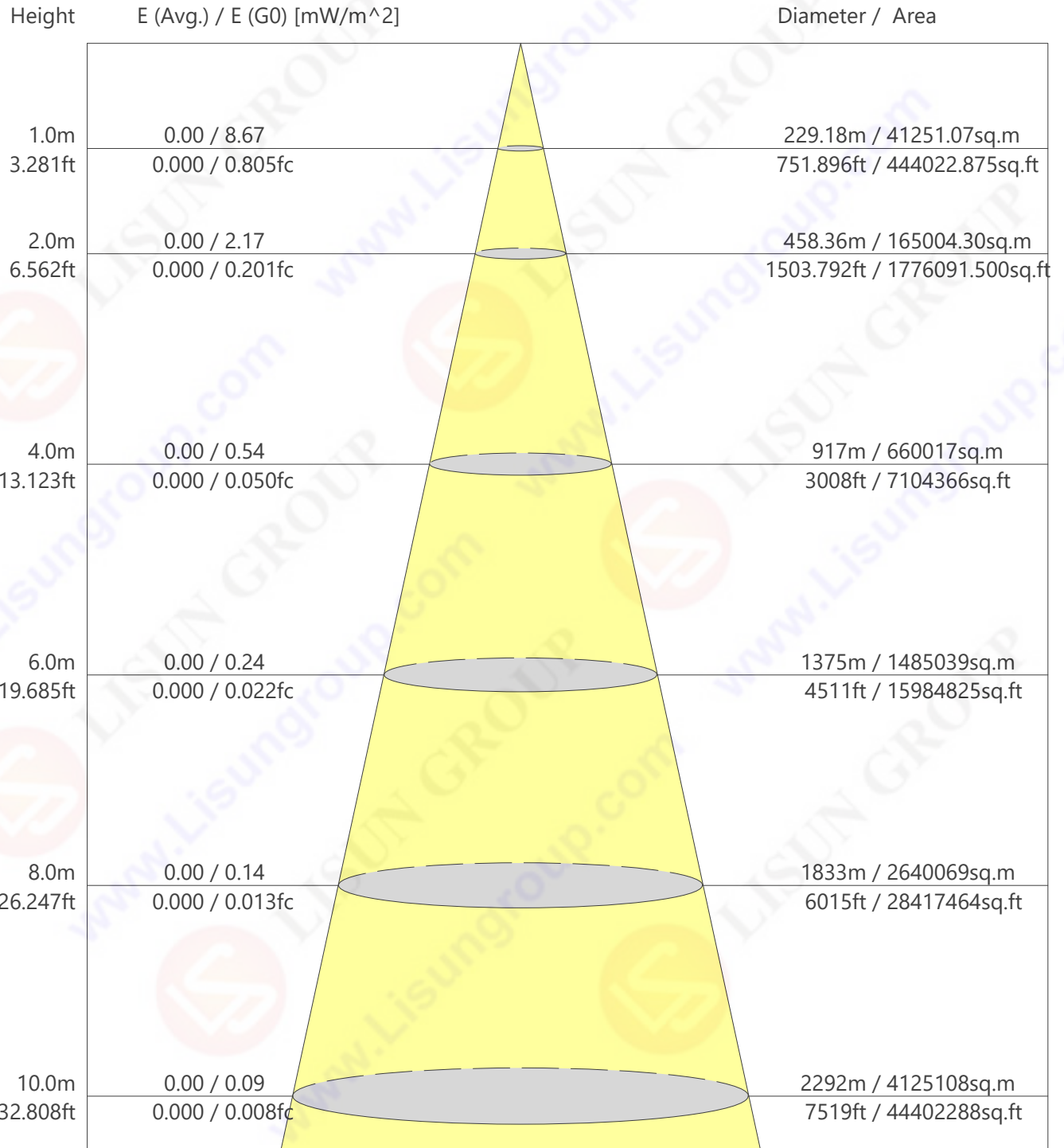
### Iso-RadiationIntensity



**Vertical Iso-Irradiance Plot**




### Average Irradiance Effective Figure



Beam Angle: 179° Flux Out: 54.75mW



Area Flux

Vertical ∅(E)	Horizontal																			∅(T)	∅(E)		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90				
90	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.4	1.4	0.4	---	
80	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.6	1.6	0.4	---	
70	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.9	1.9	0.4	---	
60	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	2.2	2.2	0.4	---	
50	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	2.5	2.5	0.4	---	
40	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	2.7	2.7	0.4	---	
30	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	2.9	2.9	0.4	---	
20	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	3.0	3.0	0.4	---	
10	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.0	3.1	3.1	0.4	---	
0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.0	3.1	3.1	0.4	---	
10	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	3.0	3.0	0.4	---	
20	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	2.9	2.9	0.4	---	
30	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	2.7	2.7	0.4	---	
40	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	2.5	2.5	0.4	---	
50	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	2.2	2.2	0.4	---	
60	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.9	1.9	0.4	---	
70	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.7	1.7	0.4	---	
80	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.5	1.4	0.4	---	
90	0.4	1.2	1.9	2.5	2.9	3.1	3.1	3.0	2.9	2.9	3.1	3.2	3.2	2.9	2.5	2.0	1.2	0.4	43	---	0.4	---	
∅(E)	0.4	1.2	1.9	2.5	2.9	3.1	3.1	3.0	2.9	2.9	3.1	3.2	3.2	2.9	2.5	2.0	1.2	0.4	---	43	---	0.4	---

Unit: mW

Test Type: Type C Test Distance: 1.325 m C Plane (°): 0.0-360.0:10.0 γ (°): 0.0-180.0:1.0  
Test Device: Lisun LSG-1890B Temperature: 25.0°C Humidity: 65.0%

Test Lab: Lisun Instruments Limited  
Test By: JACK

Review By:

### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
0.0-1.0	8.7	0.0	0.0	0.01	0.01
1.0-2.0	8.7	0.0	0.0	0.04	0.05
2.0-3.0	8.7	0.0	0.1	0.07	0.12
3.0-4.0	8.7	0.1	0.1	0.10	0.22
4.0-5.0	8.7	0.1	0.2	0.12	0.34
5.0-6.0	8.6	0.1	0.3	0.15	0.49
6.0-7.0	8.6	0.1	0.4	0.18	0.67
7.0-8.0	8.6	0.1	0.5	0.20	0.87
8.0-9.0	8.6	0.1	0.7	0.23	1.11
9.0-10.0	8.6	0.2	0.8	0.26	1.36
10.0-11.0	8.6	0.2	1.0	0.28	1.65
11.0-12.0	8.6	0.2	1.2	0.31	1.96
12.0-13.0	8.6	0.2	1.4	0.34	2.30
13.0-14.0	8.6	0.2	1.6	0.36	2.66
14.0-15.0	8.6	0.2	1.8	0.39	3.05
15.0-16.0	8.5	0.3	2.1	0.41	3.46
16.0-17.0	8.5	0.3	2.4	0.44	3.90
17.0-18.0	8.5	0.3	2.6	0.46	4.36
18.0-19.0	8.5	0.3	2.9	0.49	4.85
19.0-20.0	8.5	0.3	3.2	0.51	5.36
20.0-21.0	8.4	0.3	3.6	0.54	5.90
21.0-22.0	8.4	0.3	3.9	0.56	6.46
22.0-23.0	8.4	0.4	4.3	0.58	7.04
23.0-24.0	8.4	0.4	4.6	0.61	7.65
24.0-25.0	8.3	0.4	5.0	0.63	8.27
25.0-26.0	8.3	0.4	5.4	0.65	8.92
26.0-27.0	8.3	0.4	5.8	0.67	9.59
27.0-28.0	8.3	0.4	6.2	0.69	10.28
28.0-29.0	8.2	0.4	6.6	0.71	11.00
29.0-30.0	8.2	0.4	7.1	0.73	11.73
30.0-31.0	8.2	0.5	7.5	0.75	12.48
31.0-32.0	8.1	0.5	8.0	0.77	13.25
32.0-33.0	8.1	0.5	8.5	0.79	14.03
33.0-34.0	8.0	0.5	9.0	0.81	14.84
34.0-35.0	8.0	0.5	9.5	0.82	15.66
35.0-36.0	8.0	0.5	10.0	0.84	16.50
36.0-37.0	7.9	0.5	10.5	0.86	17.36
37.0-38.0	7.9	0.5	11.0	0.87	18.23
38.0-39.0	7.8	0.5	11.6	0.89	19.11
39.0-40.0	7.8	0.5	12.1	0.90	20.01

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

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### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	7.8	0.6	12.7	0.91	20.93
41.0-42.0	7.7	0.6	13.2	0.93	21.85
42.0-43.0	7.7	0.6	13.8	0.94	22.79
43.0-44.0	7.6	0.6	14.4	0.95	23.74
44.0-45.0	7.6	0.6	14.9	0.96	24.70
45.0-46.0	7.5	0.6	15.5	0.97	25.67
46.0-47.0	7.5	0.6	16.1	0.98	26.66
47.0-48.0	7.4	0.6	16.7	0.99	27.65
48.0-49.0	7.4	0.6	17.3	1.00	28.65
49.0-50.0	7.3	0.6	17.9	1.01	29.65
50.0-51.0	7.2	0.6	18.5	1.01	30.67
51.0-52.0	7.2	0.6	19.2	1.02	31.69
52.0-53.0	7.1	0.6	19.8	1.03	32.71
53.0-54.0	7.1	0.6	20.4	1.03	33.75
54.0-55.0	7.0	0.6	21.0	1.04	34.78
55.0-56.0	7.0	0.6	21.7	1.04	35.82
56.0-57.0	6.9	0.6	22.3	1.04	36.87
57.0-58.0	6.8	0.6	22.9	1.05	37.92
58.0-59.0	6.8	0.6	23.6	1.05	38.97
59.0-60.0	6.7	0.6	24.2	1.05	40.02
60.0-61.0	6.7	0.6	24.8	1.05	41.07
61.0-62.0	6.6	0.6	25.5	1.05	42.12
62.0-63.0	6.6	0.6	26.1	1.05	43.18
63.0-64.0	6.5	0.6	26.7	1.05	44.23
64.0-65.0	6.4	0.6	27.4	1.05	45.28
65.0-66.0	6.4	0.6	28.0	1.05	46.34
66.0-67.0	6.3	0.6	28.7	1.05	47.39
67.0-68.0	6.3	0.6	29.3	1.05	48.43
68.0-69.0	6.2	0.6	29.9	1.05	49.48
69.0-70.0	6.1	0.6	30.6	1.04	50.52
70.0-71.0	6.1	0.6	31.2	1.04	51.56
71.0-72.0	6.0	0.6	31.8	1.04	52.60
72.0-73.0	6.0	0.6	32.4	1.03	53.63
73.0-74.0	5.9	0.6	33.1	1.03	54.66
74.0-75.0	5.9	0.6	33.7	1.02	55.68
75.0-76.0	5.8	0.6	34.3	1.02	56.70
76.0-77.0	5.8	0.6	34.9	1.01	57.72
77.0-78.0	5.7	0.6	35.5	1.01	58.73
78.0-79.0	5.7	0.6	36.1	1.01	59.73
79.0-80.0	5.6	0.6	36.7	1.00	60.73

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### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	5.6	0.6	37.3	1.00	61.73
81.0-82.0	5.5	0.6	37.9	0.99	62.72
82.0-83.0	5.5	0.6	38.5	0.99	63.71
83.0-84.0	5.5	0.6	39.1	0.98	64.69
84.0-85.0	5.4	0.6	39.7	0.98	65.67
85.0-86.0	5.4	0.6	40.3	0.98	66.65
86.0-87.0	5.4	0.6	40.9	0.97	67.62
87.0-88.0	5.4	0.6	41.5	0.97	68.59
88.0-89.0	5.3	0.6	42.1	0.97	69.56
89.0-90.0	5.3	0.6	42.6	0.97	70.53
90.0-91.0	5.3	0.6	43.2	0.95	71.48
91.0-92.0	5.0	0.6	43.8	0.91	72.39
92.0-93.0	4.6	0.5	44.3	0.84	73.23
93.0-94.0	4.3	0.5	44.8	0.78	74.01
94.0-95.0	4.1	0.5	45.2	0.75	74.76
95.0-96.0	4.1	0.4	45.7	0.73	75.49
96.0-97.0	4.0	0.4	46.1	0.73	76.22
97.0-98.0	4.0	0.4	46.5	0.72	76.94
98.0-99.0	4.0	0.4	47.0	0.72	77.66
99.0-100.0	4.0	0.4	47.4	0.71	78.37
100.0-101.0	4.0	0.4	47.8	0.71	79.08
101.0-102.0	4.0	0.4	48.3	0.71	79.79
102.0-103.0	4.0	0.4	48.7	0.70	80.50
103.0-104.0	4.0	0.4	49.1	0.70	81.20
104.0-105.0	4.0	0.4	49.5	0.70	81.89
105.0-106.0	4.0	0.4	49.9	0.69	82.58
106.0-107.0	3.9	0.4	50.4	0.69	83.27
107.0-108.0	3.9	0.4	50.8	0.68	83.95
108.0-109.0	4.0	0.4	51.2	0.68	84.63
109.0-110.0	4.0	0.4	51.6	0.68	85.31
110.0-111.0	4.0	0.4	52.0	0.68	85.99
111.0-112.0	4.0	0.4	52.4	0.67	86.66
112.0-113.0	3.9	0.4	52.8	0.66	87.32
113.0-114.0	3.9	0.4	53.2	0.65	87.97
114.0-115.0	3.8	0.4	53.6	0.64	88.60
115.0-116.0	3.8	0.4	54.0	0.62	89.22
116.0-117.0	3.7	0.4	54.3	0.60	89.82
117.0-118.0	3.6	0.3	54.7	0.58	90.40
118.0-119.0	3.4	0.3	55.0	0.55	90.95
119.0-120.0	3.3	0.3	55.3	0.53	91.48

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Temperature : 25.0°C

Humidity : 65.0%

Review By :

### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	3.3	0.3	55.6	0.51	91.99
121.0-122.0	3.2	0.3	55.9	0.50	92.49
122.0-123.0	3.1	0.3	56.2	0.48	92.97
123.0-124.0	3.1	0.3	56.5	0.46	93.43
124.0-125.0	3.0	0.3	56.8	0.45	93.88
125.0-126.0	2.9	0.3	57.0	0.43	94.31
126.0-127.0	2.8	0.2	57.3	0.41	94.71
127.0-128.0	2.7	0.2	57.5	0.39	95.10
128.0-129.0	2.6	0.2	57.7	0.37	95.47
129.0-130.0	2.5	0.2	57.9	0.35	95.82
130.0-131.0	2.5	0.2	58.1	0.34	96.16
131.0-132.0	2.4	0.2	58.3	0.32	96.48
132.0-133.0	2.3	0.2	58.5	0.31	96.79
133.0-134.0	2.2	0.2	58.7	0.29	97.08
134.0-135.0	2.1	0.2	58.9	0.28	97.36
135.0-136.0	2.1	0.2	59.0	0.26	97.62
136.0-137.0	2.0	0.1	59.2	0.25	97.87
137.0-138.0	1.9	0.1	59.3	0.23	98.10
138.0-139.0	1.8	0.1	59.5	0.22	98.31
139.0-140.0	1.7	0.1	59.6	0.20	98.51
140.0-141.0	1.6	0.1	59.7	0.18	98.69
141.0-142.0	1.5	0.1	59.8	0.17	98.86
142.0-143.0	1.4	0.1	59.9	0.15	99.01
143.0-144.0	1.3	0.1	60.0	0.13	99.14
144.0-145.0	1.1	0.1	60.0	0.12	99.27
145.0-146.0	1.0	0.1	60.1	0.11	99.37
146.0-147.0	0.9	0.1	60.1	0.09	99.47
147.0-148.0	0.9	0.1	60.2	0.08	99.55
148.0-149.0	0.8	0.0	60.2	0.07	99.62
149.0-150.0	0.7	0.0	60.3	0.06	99.69
150.0-151.0	0.6	0.0	60.3	0.05	99.74
151.0-152.0	0.5	0.0	60.3	0.05	99.79
152.0-153.0	0.5	0.0	60.4	0.04	99.83
153.0-154.0	0.4	0.0	60.4	0.03	99.86
154.0-155.0	0.4	0.0	60.4	0.03	99.89
155.0-156.0	0.3	0.0	60.4	0.02	99.91
156.0-157.0	0.3	0.0	60.4	0.02	99.93
157.0-158.0	0.2	0.0	60.4	0.02	99.95
158.0-159.0	0.2	0.0	60.4	0.01	99.96
159.0-160.0	0.2	0.0	60.5	0.01	99.97

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

### Zonal Flux

Gamma °	I <sub>mean</sub> mW	Zonal Flux mW	Sum Zonal Flux mW	Rel Zonal Flux %	Sum Rel Zonal Flux %
160.0-161.0	0.1	0.0	60.5	0.01	99.98
161.0-162.0	0.1	0.0	60.5	0.01	99.99
162.0-163.0	0.1	0.0	60.5	0.00	99.99
163.0-164.0	0.1	0.0	60.5	0.00	99.99
164.0-165.0	0.1	0.0	60.5	0.00	100.00
165.0-166.0	0.0	0.0	60.5	0.00	100.00
166.0-167.0	0.0	0.0	60.5	0.00	100.00
167.0-168.0	0.0	0.0	60.5	0.00	100.00
168.0-169.0	0.0	0.0	60.5	0.00	100.00
169.0-170.0	0.0	0.0	60.5	0.00	100.00
170.0-171.0	0.0	0.0	60.5	0.00	100.00
171.0-172.0	0.0	0.0	60.5	0.00	100.00
172.0-173.0	0.0	0.0	60.5	0.00	100.00
173.0-174.0	0.0	0.0	60.5	0.00	100.00
174.0-175.0	0.0	0.0	60.5	0.00	100.00
175.0-176.0	0.0	0.0	60.5	0.00	100.00
176.0-177.0	0.0	0.0	60.5	0.00	100.00
177.0-178.0	0.0	0.0	60.5	0.00	100.00
178.0-179.0	0.0	0.0	60.5	0.00	100.00
179.0-180.0	0.0	0.0	60.5	0.00	100.00

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G0.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
G1.0	8.7	8.6	8.6	8.7	8.7	8.7	8.7	8.7
G2.0	8.7	8.7	8.6	8.7	8.7	8.7	8.7	8.7
G3.0	8.7	8.7	8.6	8.7	8.7	8.7	8.7	8.6
G4.0	8.7	8.7	8.6	8.7	8.7	8.7	8.7	8.7
G5.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.6
G6.0	8.7	8.7	8.7	8.7	8.7	8.6	8.6	8.6
G7.0	8.7	8.7	8.7	8.7	8.7	8.7	8.6	8.6
G8.0	8.7	8.7	8.7	8.7	8.7	8.7	8.6	8.6
G9.0	8.7	8.7	8.7	8.7	8.7	8.6	8.6	8.6
G10.0	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.6
G11.0	8.7	8.7	8.7	8.7	8.7	8.6	8.6	8.5
G12.0	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.5
G13.0	8.8	8.7	8.7	8.7	8.6	8.6	8.5	8.5
G14.0	8.7	8.7	8.7	8.7	8.6	8.6	8.5	8.5
G15.0	8.8	8.7	8.7	8.7	8.6	8.6	8.5	8.5
G16.0	8.8	8.7	8.7	8.7	8.6	8.5	8.5	8.4
G17.0	8.8	8.7	8.7	8.7	8.6	8.5	8.4	8.4
G18.0	8.8	8.7	8.7	8.7	8.6	8.5	8.4	8.3
G19.0	8.8	8.7	8.7	8.7	8.6	8.5	8.4	8.3
G20.0	8.8	8.7	8.7	8.6	8.6	8.4	8.3	8.3
G21.0	8.8	8.7	8.7	8.6	8.5	8.4	8.3	8.2
G22.0	8.8	8.7	8.7	8.6	8.5	8.4	8.3	8.2
G23.0	8.8	8.7	8.7	8.6	8.5	8.4	8.2	8.1
G24.0	8.8	8.7	8.7	8.6	8.5	8.3	8.2	8.1
G25.0	8.8	8.7	8.7	8.6	8.5	8.3	8.1	8.0
G26.0	8.9	8.8	8.7	8.6	8.4	8.3	8.1	7.9
G27.0	8.9	8.8	8.7	8.6	8.4	8.2	8.1	7.9
G28.0	8.9	8.8	8.7	8.6	8.4	8.2	8.0	7.8
G29.0	8.9	8.7	8.7	8.6	8.4	8.2	8.0	7.8
G30.0	8.9	8.8	8.7	8.6	8.4	8.1	7.9	7.7
G31.0	8.9	8.8	8.7	8.5	8.4	8.1	7.8	7.6
G32.0	8.9	8.8	8.7	8.5	8.3	8.0	7.8	7.5
G33.0	8.9	8.8	8.7	8.5	8.3	8.0	7.7	7.5
G34.0	8.9	8.8	8.7	8.5	8.2	8.0	7.7	7.4
G35.0	8.9	8.8	8.7	8.5	8.2	7.9	7.6	7.3
G36.0	8.9	8.8	8.7	8.5	8.2	7.9	7.5	7.3
G37.0	8.9	8.8	8.7	8.5	8.2	7.8	7.5	7.2
G38.0	8.9	8.8	8.7	8.5	8.1	7.8	7.4	7.1
G39.0	8.9	8.8	8.7	8.4	8.1	7.7	7.4	7.0

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0      γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :



Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G40.0	8.9	8.8	8.7	8.4	8.1	7.7	7.3	6.9
G41.0	8.9	8.8	8.7	8.4	8.0	7.6	7.2	6.8
G42.0	8.9	8.8	8.7	8.4	8.0	7.6	7.1	6.7
G43.0	8.9	8.8	8.7	8.4	8.0	7.5	7.1	6.7
G44.0	8.9	8.8	8.7	8.4	7.9	7.5	7.0	6.6
G45.0	8.9	8.8	8.6	8.3	7.9	7.4	6.9	6.5
G46.0	8.9	8.8	8.6	8.3	7.9	7.4	6.9	6.4
G47.0	8.9	8.8	8.6	8.3	7.8	7.3	6.8	6.3
G48.0	8.9	8.7	8.6	8.3	7.8	7.3	6.7	6.2
G49.0	8.9	8.8	8.6	8.3	7.8	7.2	6.6	6.1
G50.0	8.9	8.8	8.6	8.2	7.7	7.1	6.5	6.0
G51.0	8.9	8.8	8.6	8.2	7.7	7.1	6.5	5.8
G52.0	8.9	8.7	8.6	8.2	7.7	7.0	6.4	5.7
G53.0	8.9	8.7	8.6	8.2	7.6	7.0	6.3	5.6
G54.0	8.9	8.7	8.6	8.2	7.6	6.9	6.2	5.5
G55.0	8.9	8.7	8.6	8.1	7.5	6.8	6.1	5.4
G56.0	8.9	8.7	8.5	8.1	7.5	6.8	6.0	5.3
G57.0	8.9	8.7	8.5	8.1	7.5	6.7	6.0	5.2
G58.0	8.9	8.7	8.5	8.1	7.4	6.7	5.9	5.1
G59.0	8.9	8.7	8.5	8.1	7.4	6.6	5.8	5.0
G60.0	9.0	8.7	8.5	8.0	7.3	6.5	5.7	4.9
G61.0	9.0	8.7	8.5	8.0	7.3	6.5	5.6	4.7
G62.0	9.0	8.7	8.5	8.0	7.3	6.4	5.5	4.6
G63.0	9.0	8.7	8.5	8.0	7.2	6.3	5.4	4.5
G64.0	9.0	8.7	8.5	7.9	7.2	6.3	5.4	4.4
G65.0	8.9	8.7	8.5	7.9	7.1	6.2	5.3	4.3
G66.0	9.0	8.7	8.5	7.9	7.1	6.2	5.2	4.2
G67.0	9.0	8.7	8.4	7.9	7.1	6.1	5.1	4.0
G68.0	9.0	8.7	8.4	7.9	7.1	6.1	5.0	3.9
G69.0	8.9	8.7	8.4	7.9	7.0	6.0	4.9	3.8
G70.0	8.9	8.7	8.4	7.8	7.0	6.0	4.8	3.7
G71.0	8.9	8.7	8.4	7.8	7.0	5.9	4.8	3.6
G72.0	8.9	8.7	8.4	7.8	6.9	5.9	4.7	3.5
G73.0	8.9	8.7	8.4	7.8	6.9	5.8	4.6	3.4
G74.0	8.9	8.7	8.4	7.8	6.9	5.8	4.5	3.3
G75.0	8.9	8.7	8.4	7.7	6.8	5.7	4.5	3.2
G76.0	8.9	8.7	8.4	7.7	6.8	5.7	4.4	3.0
G77.0	8.9	8.6	8.4	7.7	6.8	5.6	4.3	2.9
G78.0	8.9	8.6	8.3	7.7	6.8	5.6	4.3	2.8
G79.0	8.9	8.6	8.3	7.7	6.8	5.6	4.2	2.8

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0      γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G80.0	8.9	8.6	8.3	7.7	6.7	5.5	4.2	2.7
G81.0	8.9	8.6	8.3	7.7	6.7	5.5	4.1	2.6
G82.0	8.9	8.6	8.3	7.6	6.7	5.5	4.1	2.5
G83.0	8.9	8.6	8.3	7.7	6.7	5.4	4.0	2.5
G84.0	8.9	8.6	8.3	7.6	6.6	5.4	4.0	2.4
G85.0	8.9	8.6	8.3	7.6	6.6	5.4	3.9	2.3
G86.0	8.9	8.6	8.3	7.6	6.6	5.4	3.9	2.3
G87.0	8.9	8.6	8.3	7.6	6.6	5.3	3.9	2.2
G88.0	8.8	8.6	8.3	7.6	6.6	5.3	3.9	2.2
G89.0	8.9	8.6	8.3	7.6	6.6	5.3	3.8	2.2
G90.0	8.8	8.6	8.3	7.6	6.6	5.3	3.8	2.2
G91.0	8.6	8.4	8.1	7.5	6.5	5.2	3.7	2.0
G92.0	7.9	7.7	7.6	7.3	6.5	5.1	3.5	1.6
G93.0	6.9	6.7	6.7	7.1	6.4	4.9	3.1	1.0
G94.0	6.2	6.0	6.2	6.9	6.3	4.6	2.7	0.6
G95.0	5.9	5.8	6.1	6.9	6.2	4.4	2.3	0.4
G96.0	5.9	5.8	6.1	6.9	6.1	4.2	2.1	0.3
G97.0	5.9	5.8	6.1	6.9	6.0	4.0	2.0	0.2
G98.0	5.9	5.8	6.1	6.9	5.9	4.0	2.0	0.2
G99.0	5.9	5.8	6.1	6.9	5.9	3.9	1.9	0.2
G100.0	5.9	5.8	6.0	6.8	5.9	3.9	1.9	0.1
G101.0	5.8	5.7	6.0	6.8	5.9	3.9	1.9	0.1
G102.0	5.8	5.7	6.0	6.8	5.8	3.8	1.8	0.2
G103.0	5.8	5.7	6.0	6.7	5.8	3.8	1.8	0.2
G104.0	5.8	5.7	5.9	6.7	5.7	3.8	1.8	0.2
G105.0	5.7	5.6	5.9	6.6	5.7	3.7	1.8	0.3
G106.0	5.7	5.6	5.9	6.6	5.6	3.7	1.8	0.3
G107.0	5.6	5.5	5.8	6.5	5.6	3.6	1.8	0.3
G108.0	5.6	5.5	5.8	6.5	5.5	3.6	1.8	0.3
G109.0	5.6	5.5	5.9	6.4	5.4	3.5	1.8	0.3
G110.0	5.7	5.6	6.0	6.4	5.4	3.5	1.7	0.3
G111.0	5.9	5.8	6.0	6.3	5.3	3.4	1.7	0.4
G112.0	6.0	5.8	6.0	6.2	5.2	3.4	1.7	0.4
G113.0	5.9	5.8	5.9	6.1	5.1	3.4	1.7	0.4
G114.0	5.9	5.7	5.8	6.0	5.1	3.3	1.6	0.4
G115.0	5.8	5.6	5.8	5.9	5.0	3.3	1.6	0.4
G116.0	5.7	5.5	5.7	5.8	4.9	3.2	1.6	0.4
G117.0	5.3	5.2	5.6	5.7	4.8	3.1	1.5	0.4
G118.0	4.2	4.9	5.6	5.6	4.7	3.1	1.5	0.4
G119.0	3.8	4.6	5.5	5.5	4.6	3.0	1.4	0.3

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0      γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G120.0	3.7	4.3	5.4	5.4	4.5	2.9	1.4	0.3
G121.0	3.7	4.2	5.3	5.3	4.4	2.9	1.3	0.3
G122.0	3.7	4.2	5.2	5.1	4.3	2.8	1.3	0.2
G123.0	3.7	4.1	5.1	5.0	4.2	2.7	1.2	0.2
G124.0	3.5	4.0	4.9	4.9	4.1	2.6	1.2	0.2
G125.0	3.4	3.9	4.8	4.8	4.0	2.5	1.1	0.2
G126.0	3.3	3.7	4.7	4.6	3.8	2.4	1.0	0.1
G127.0	3.2	3.4	4.5	4.5	3.7	2.3	0.9	0.1
G128.0	2.9	3.2	4.3	4.4	3.6	2.2	0.9	0.0
G129.0	2.5	3.1	4.1	4.2	3.4	2.0	0.8	0.0
G130.0	2.7	2.9	3.9	4.0	3.3	1.9	0.7	0.0
G131.0	3.2	2.8	3.7	3.9	3.1	1.8	0.6	0.0
G132.0	3.1	2.7	3.4	3.7	2.9	1.6	0.5	0.0
G133.0	3.0	2.6	3.3	3.6	2.8	1.5	0.5	0.0
G134.0	2.9	2.5	3.1	3.4	2.6	1.4	0.4	0.0
G135.0	2.8	2.5	3.0	3.2	2.4	1.2	0.3	0.0
G136.0	2.7	2.4	2.8	3.0	2.2	1.1	0.3	0.0
G137.0	2.6	2.3	2.7	2.9	2.0	1.0	0.2	0.0
G138.0	2.5	2.2	2.6	2.7	1.8	0.9	0.2	0.0
G139.0	2.4	2.1	2.4	2.4	1.7	0.8	0.1	0.0
G140.0	2.2	2.0	2.3	2.2	1.5	0.7	0.1	0.0
G141.0	2.1	1.9	2.1	2.0	1.3	0.6	0.0	0.0
G142.0	2.0	1.8	1.9	1.7	1.2	0.5	0.0	0.0
G143.0	1.8	1.7	1.7	1.5	1.0	0.4	0.0	0.0
G144.0	1.7	1.5	1.4	1.3	0.9	0.3	0.0	0.0
G145.0	1.5	1.4	1.3	1.1	0.7	0.2	0.0	0.0
G146.0	1.4	1.2	1.1	1.0	0.6	0.2	0.0	0.0
G147.0	1.2	1.1	1.0	0.8	0.5	0.1	0.0	0.0
G148.0	1.1	1.0	0.8	0.7	0.4	0.1	0.0	0.0
G149.0	0.9	0.8	0.7	0.6	0.3	0.0	0.0	0.0
G150.0	0.8	0.7	0.6	0.4	0.2	0.0	0.0	0.0
G151.0	0.7	0.6	0.5	0.4	0.2	0.0	0.0	0.0
G152.0	0.6	0.5	0.4	0.3	0.1	0.0	0.0	0.0
G153.0	0.5	0.4	0.3	0.2	0.0	0.0	0.0	0.0
G154.0	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
G155.0	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0
G156.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
G157.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
G158.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G159.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0      γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C0.0	C10.0	C20.0	C30.0	C40.0	C50.0	C60.0	C70.0
G160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G161.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G162.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G164.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G166.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G174.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G177.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G178.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G179.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G0.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
G1.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
G2.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
G3.0	8.6	8.7	8.7	8.7	8.7	8.6	8.7	8.7
G4.0	8.7	8.7	8.7	8.7	8.7	8.6	8.7	8.7
G5.0	8.6	8.7	8.6	8.6	8.7	8.6	8.6	8.7
G6.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.7
G7.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
G8.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
G9.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
G10.0	8.6	8.5	8.6	8.6	8.6	8.6	8.6	8.6
G11.0	8.5	8.5	8.5	8.5	8.6	8.6	8.6	8.6
G12.0	8.5	8.5	8.5	8.5	8.6	8.6	8.6	8.6
G13.0	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.6
G14.0	8.5	8.4	8.4	8.5	8.5	8.5	8.6	8.6
G15.0	8.4	8.4	8.4	8.4	8.5	8.5	8.5	8.6
G16.0	8.4	8.4	8.4	8.4	8.5	8.5	8.6	8.6
G17.0	8.3	8.3	8.3	8.3	8.4	8.5	8.5	8.6
G18.0	8.3	8.3	8.3	8.3	8.4	8.4	8.5	8.6
G19.0	8.3	8.2	8.2	8.3	8.4	8.4	8.5	8.6
G20.0	8.2	8.2	8.2	8.2	8.3	8.4	8.5	8.6
G21.0	8.2	8.1	8.1	8.2	8.3	8.4	8.5	8.6
G22.0	8.1	8.1	8.1	8.2	8.3	8.4	8.5	8.6
G23.0	8.1	8.0	8.0	8.1	8.2	8.3	8.5	8.6
G24.0	8.0	8.0	8.0	8.0	8.2	8.3	8.4	8.6
G25.0	7.9	7.9	7.9	8.0	8.1	8.3	8.4	8.6
G26.0	7.9	7.8	7.9	7.9	8.1	8.2	8.4	8.6
G27.0	7.8	7.7	7.8	7.9	8.1	8.2	8.4	8.6
G28.0	7.7	7.7	7.7	7.8	8.0	8.2	8.4	8.5
G29.0	7.7	7.6	7.6	7.7	8.0	8.1	8.3	8.5
G30.0	7.6	7.5	7.6	7.7	7.9	8.1	8.3	8.5
G31.0	7.5	7.5	7.5	7.6	7.9	8.1	8.3	8.5
G32.0	7.4	7.4	7.4	7.6	7.8	8.0	8.3	8.5
G33.0	7.3	7.3	7.3	7.5	7.8	8.0	8.3	8.5
G34.0	7.3	7.2	7.3	7.4	7.7	7.9	8.2	8.5
G35.0	7.2	7.1	7.2	7.4	7.7	7.9	8.2	8.5
G36.0	7.1	7.0	7.1	7.3	7.6	7.9	8.2	8.5
G37.0	7.0	6.9	7.0	7.2	7.5	7.8	8.1	8.5
G38.0	6.9	6.8	6.9	7.1	7.5	7.8	8.1	8.4
G39.0	6.8	6.7	6.8	7.0	7.4	7.7	8.1	8.4

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G40.0	6.7	6.6	6.7	7.0	7.3	7.7	8.1	8.4
G41.0	6.6	6.5	6.6	6.9	7.3	7.6	8.0	8.4
G42.0	6.5	6.4	6.5	6.8	7.2	7.6	8.0	8.4
G43.0	6.4	6.3	6.4	6.7	7.1	7.5	8.0	8.4
G44.0	6.3	6.2	6.3	6.6	7.1	7.5	7.9	8.4
G45.0	6.2	6.1	6.2	6.5	7.0	7.4	7.9	8.4
G46.0	6.1	5.9	6.0	6.4	6.9	7.4	7.9	8.3
G47.0	5.9	5.8	5.9	6.3	6.9	7.4	7.9	8.3
G48.0	5.8	5.7	5.8	6.2	6.8	7.3	7.8	8.3
G49.0	5.7	5.5	5.7	6.1	6.7	7.2	7.8	8.3
G50.0	5.6	5.4	5.6	6.0	6.6	7.2	7.8	8.3
G51.0	5.4	5.3	5.5	5.9	6.5	7.1	7.7	8.3
G52.0	5.3	5.2	5.3	5.8	6.5	7.1	7.7	8.2
G53.0	5.2	5.0	5.2	5.7	6.4	7.0	7.7	8.2
G54.0	5.0	4.9	5.1	5.6	6.3	7.0	7.6	8.2
G55.0	4.9	4.7	5.0	5.5	6.3	6.9	7.6	8.2
G56.0	4.8	4.6	4.8	5.4	6.2	6.9	7.6	8.2
G57.0	4.6	4.4	4.7	5.3	6.1	6.8	7.5	8.1
G58.0	4.5	4.3	4.5	5.2	6.0	6.8	7.5	8.1
G59.0	4.4	4.1	4.4	5.1	5.9	6.7	7.5	8.1
G60.0	4.2	3.9	4.3	5.0	5.8	6.7	7.4	8.1
G61.0	4.1	3.8	4.1	4.9	5.8	6.6	7.4	8.1
G62.0	3.9	3.6	4.0	4.8	5.7	6.6	7.4	8.0
G63.0	3.8	3.5	3.8	4.6	5.6	6.5	7.3	8.0
G64.0	3.6	3.3	3.7	4.5	5.5	6.5	7.3	8.0
G65.0	3.5	3.2	3.6	4.4	5.5	6.4	7.3	8.0
G66.0	3.3	3.0	3.4	4.3	5.4	6.4	7.2	8.0
G67.0	3.2	2.8	3.3	4.2	5.3	6.3	7.2	8.0
G68.0	3.0	2.7	3.1	4.1	5.2	6.3	7.2	7.9
G69.0	2.9	2.5	3.0	4.0	5.2	6.2	7.2	7.9
G70.0	2.8	2.3	2.8	3.9	5.1	6.2	7.1	7.9
G71.0	2.6	2.2	2.7	3.8	5.0	6.1	7.1	7.9
G72.0	2.5	2.0	2.6	3.7	4.9	6.1	7.1	7.9
G73.0	2.3	1.8	2.5	3.6	4.9	6.0	7.0	7.9
G74.0	2.2	1.7	2.3	3.5	4.8	6.0	7.0	7.8
G75.0	2.0	1.5	2.2	3.4	4.7	5.9	7.0	7.8
G76.0	1.9	1.3	2.0	3.3	4.7	5.9	7.0	7.8
G77.0	1.8	1.2	1.9	3.2	4.6	5.9	6.9	7.8
G78.0	1.6	1.0	1.8	3.1	4.6	5.8	6.9	7.8
G79.0	1.5	0.9	1.7	3.0	4.5	5.8	6.9	7.8

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G80.0	1.4	0.7	1.6	3.0	4.5	5.8	6.9	7.8
G81.0	1.2	0.6	1.5	2.9	4.4	5.7	6.9	7.7
G82.0	1.1	0.5	1.4	2.8	4.4	5.7	6.9	7.7
G83.0	1.0	0.4	1.3	2.8	4.3	5.7	6.8	7.7
G84.0	0.9	0.3	1.2	2.7	4.3	5.7	6.8	7.7
G85.0	0.8	0.2	1.1	2.7	4.3	5.6	6.8	7.7
G86.0	0.8	0.1	1.0	2.6	4.2	5.6	6.8	7.7
G87.0	0.7	0.0	1.0	2.6	4.2	5.6	6.8	7.7
G88.0	0.6	0.0	0.9	2.5	4.2	5.6	6.8	7.7
G89.0	0.6	0.0	0.9	2.5	4.2	5.6	6.8	7.7
G90.0	0.6	0.0	0.9	2.5	4.1	5.6	6.7	7.7
G91.0	0.5	0.0	0.8	2.4	4.1	5.5	6.7	7.6
G92.0	0.4	0.0	0.6	2.1	3.9	5.4	6.7	7.3
G93.0	0.2	0.0	0.4	1.8	3.7	5.3	6.7	7.0
G94.0	0.1	0.0	0.2	1.4	3.4	5.2	6.6	6.7
G95.0	0.0	0.0	0.1	1.1	3.2	5.1	6.6	6.7
G96.0	0.0	0.0	0.0	1.0	3.0	4.9	6.6	6.7
G97.0	0.0	0.0	0.0	1.0	2.9	4.9	6.6	6.7
G98.0	0.0	0.0	0.0	0.9	2.9	4.8	6.5	6.7
G99.0	0.0	0.0	0.0	0.9	2.9	4.8	6.5	6.7
G100.0	0.0	0.0	0.0	0.9	2.9	4.8	6.5	6.7
G101.0	0.0	0.0	0.0	0.9	2.9	4.8	6.5	6.7
G102.0	0.0	0.0	0.0	0.9	2.9	4.8	6.5	6.7
G103.0	0.0	0.0	0.0	1.0	2.9	4.8	6.6	6.7
G104.0	0.0	0.0	0.0	1.0	2.9	4.9	6.6	6.7
G105.0	0.0	0.0	0.0	1.0	2.9	4.9	6.6	6.7
G106.0	0.0	0.0	0.0	1.1	2.9	4.9	6.6	6.7
G107.0	0.0	0.0	0.1	1.1	2.9	4.9	6.6	6.8
G108.0	0.0	0.0	0.1	1.1	2.9	4.9	6.6	6.9
G109.0	0.0	0.0	0.2	1.2	3.0	4.8	6.6	7.0
G110.0	0.0	0.0	0.2	1.2	3.0	4.8	6.5	7.0
G111.0	0.0	0.0	0.2	1.2	3.0	4.8	6.5	6.9
G112.0	0.0	0.0	0.2	1.2	3.0	4.8	6.5	6.9
G113.0	0.0	0.0	0.2	1.2	3.0	4.8	6.5	6.9
G114.0	0.0	0.0	0.2	1.3	3.0	4.7	6.4	6.8
G115.0	0.0	0.0	0.2	1.3	3.0	4.6	6.4	6.8
G116.0	0.0	0.0	0.2	1.3	2.9	4.6	6.2	6.7
G117.0	0.0	0.0	0.2	1.3	2.9	4.6	6.0	6.7
G118.0	0.0	0.0	0.2	1.3	2.9	4.6	5.8	6.6
G119.0	0.0	0.0	0.2	1.3	2.9	4.5	5.7	6.4

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G120.0	0.0	0.0	0.2	1.3	2.9	4.5	5.6	6.2
G121.0	0.0	0.0	0.2	1.3	2.8	4.5	5.6	5.9
G122.0	0.0	0.0	0.2	1.2	2.8	4.5	5.7	5.8
G123.0	0.0	0.0	0.2	1.2	2.8	4.4	5.7	5.8
G124.0	0.0	0.0	0.2	1.2	2.7	4.4	5.7	5.8
G125.0	0.0	0.0	0.2	1.2	2.7	4.3	5.6	5.8
G126.0	0.0	0.0	0.2	1.1	2.6	4.3	5.6	5.8
G127.0	0.0	0.0	0.1	1.1	2.6	4.2	5.5	5.7
G128.0	0.0	0.0	0.1	1.0	2.5	4.1	5.4	5.5
G129.0	0.0	0.0	0.1	1.0	2.5	4.0	5.3	5.4
G130.0	0.0	0.0	0.1	0.9	2.4	3.9	5.2	5.3
G131.0	0.0	0.0	0.1	0.8	2.2	3.9	5.1	5.2
G132.0	0.0	0.0	0.1	0.8	2.1	3.8	5.0	5.1
G133.0	0.0	0.0	0.0	0.7	2.0	3.6	4.9	5.0
G134.0	0.0	0.0	0.0	0.7	1.9	3.4	4.7	4.9
G135.0	0.0	0.0	0.0	0.7	1.8	3.3	4.6	4.8
G136.0	0.0	0.0	0.0	0.6	1.7	3.1	4.4	4.8
G137.0	0.0	0.0	0.0	0.6	1.6	3.0	4.3	4.6
G138.0	0.0	0.0	0.0	0.5	1.5	2.8	4.0	4.4
G139.0	0.0	0.0	0.0	0.5	1.4	2.7	3.8	4.2
G140.0	0.0	0.0	0.0	0.5	1.3	2.5	3.6	3.9
G141.0	0.0	0.0	0.0	0.4	1.2	2.4	3.3	3.7
G142.0	0.0	0.0	0.0	0.4	1.2	2.2	3.1	3.5
G143.0	0.0	0.0	0.0	0.3	1.1	2.1	2.9	3.2
G144.0	0.0	0.0	0.0	0.3	1.0	1.9	2.7	3.0
G145.0	0.0	0.0	0.0	0.3	0.9	1.7	2.4	2.8
G146.0	0.0	0.0	0.0	0.3	0.9	1.6	2.2	2.4
G147.0	0.0	0.0	0.0	0.2	0.8	1.4	2.0	2.2
G148.0	0.0	0.0	0.0	0.2	0.7	1.3	1.8	1.9
G149.0	0.0	0.0	0.0	0.2	0.6	1.2	1.6	1.8
G150.0	0.0	0.0	0.0	0.1	0.6	1.1	1.4	1.6
G151.0	0.0	0.0	0.0	0.1	0.5	1.0	1.2	1.4
G152.0	0.0	0.0	0.0	0.0	0.4	0.9	1.1	1.2
G153.0	0.0	0.0	0.0	0.0	0.4	0.8	1.0	1.1
G154.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	1.0
G155.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.9
G156.0	0.0	0.0	0.0	0.0	0.2	0.5	0.7	0.8
G157.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.7
G158.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.6
G159.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.6

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :



Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C80.0	C90.0	C100.0	C110.0	C120.0	C130.0	C140.0	C150.0
G160.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.5
G161.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.4
G162.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3
G163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3
G164.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
G165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
G166.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
G167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G174.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G177.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G178.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G179.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G0.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
G1.0	8.7	8.7	8.7	8.7	8.6	8.6	8.6	8.7
G2.0	8.6	8.7	8.7	8.7	8.6	8.6	8.7	8.7
G3.0	8.7	8.7	8.7	8.6	8.6	8.6	8.6	8.7
G4.0	8.7	8.7	8.7	8.6	8.6	8.6	8.6	8.6
G5.0	8.6	8.6	8.7	8.6	8.6	8.6	8.6	8.6
G6.0	8.6	8.7	8.6	8.6	8.6	8.6	8.6	8.6
G7.0	8.6	8.7	8.7	8.6	8.6	8.6	8.6	8.6
G8.0	8.6	8.7	8.6	8.7	8.6	8.6	8.6	8.6
G9.0	8.6	8.7	8.7	8.6	8.6	8.6	8.6	8.6
G10.0	8.6	8.7	8.7	8.7	8.6	8.6	8.6	8.6
G11.0	8.6	8.7	8.7	8.6	8.6	8.6	8.6	8.6
G12.0	8.6	8.7	8.7	8.7	8.6	8.6	8.6	8.5
G13.0	8.6	8.7	8.7	8.7	8.6	8.6	8.5	8.5
G14.0	8.6	8.7	8.7	8.7	8.6	8.6	8.5	8.5
G15.0	8.6	8.7	8.7	8.7	8.6	8.6	8.5	8.5
G16.0	8.6	8.7	8.7	8.7	8.6	8.6	8.5	8.4
G17.0	8.6	8.7	8.7	8.7	8.6	8.6	8.5	8.4
G18.0	8.6	8.7	8.7	8.7	8.6	8.6	8.5	8.4
G19.0	8.6	8.7	8.7	8.7	8.6	8.5	8.5	8.4
G20.0	8.6	8.7	8.7	8.7	8.6	8.5	8.4	8.3
G21.0	8.6	8.7	8.7	8.7	8.6	8.5	8.4	8.3
G22.0	8.6	8.7	8.7	8.7	8.6	8.5	8.4	8.3
G23.0	8.6	8.7	8.7	8.7	8.6	8.5	8.4	8.2
G24.0	8.6	8.7	8.7	8.7	8.6	8.5	8.3	8.2
G25.0	8.6	8.7	8.7	8.7	8.6	8.5	8.3	8.2
G26.0	8.6	8.7	8.7	8.7	8.6	8.4	8.3	8.1
G27.0	8.6	8.7	8.8	8.7	8.6	8.5	8.3	8.1
G28.0	8.6	8.7	8.8	8.7	8.6	8.4	8.3	8.1
G29.0	8.6	8.7	8.8	8.7	8.6	8.4	8.2	8.0
G30.0	8.6	8.8	8.8	8.7	8.6	8.4	8.2	8.0
G31.0	8.6	8.8	8.8	8.7	8.6	8.4	8.2	7.9
G32.0	8.6	8.8	8.8	8.7	8.5	8.4	8.2	7.9
G33.0	8.6	8.8	8.8	8.7	8.5	8.4	8.1	7.8
G34.0	8.6	8.8	8.8	8.7	8.5	8.4	8.1	7.8
G35.0	8.6	8.8	8.8	8.7	8.5	8.4	8.1	7.7
G36.0	8.6	8.8	8.8	8.7	8.5	8.3	8.0	7.7
G37.0	8.6	8.8	8.8	8.8	8.5	8.3	8.0	7.7
G38.0	8.6	8.8	8.8	8.7	8.5	8.3	8.0	7.6
G39.0	8.6	8.8	8.8	8.8	8.5	8.3	7.9	7.6

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G40.0	8.6	8.8	8.8	8.8	8.5	8.3	7.9	7.5
G41.0	8.6	8.8	8.8	8.8	8.5	8.2	7.9	7.5
G42.0	8.6	8.8	8.8	8.8	8.5	8.2	7.8	7.4
G43.0	8.6	8.8	8.8	8.8	8.5	8.2	7.8	7.3
G44.0	8.6	8.8	8.8	8.8	8.5	8.2	7.8	7.3
G45.0	8.6	8.8	8.8	8.8	8.5	8.2	7.7	7.2
G46.0	8.6	8.8	8.8	8.8	8.5	8.2	7.7	7.2
G47.0	8.6	8.8	8.8	8.8	8.5	8.1	7.7	7.1
G48.0	8.6	8.8	8.8	8.8	8.5	8.1	7.6	7.1
G49.0	8.6	8.8	8.8	8.8	8.5	8.1	7.6	7.0
G50.0	8.6	8.8	8.9	8.8	8.4	8.1	7.6	6.9
G51.0	8.6	8.8	8.9	8.8	8.4	8.1	7.6	6.9
G52.0	8.6	8.8	8.9	8.8	8.4	8.0	7.5	6.8
G53.0	8.5	8.8	8.8	8.8	8.4	8.0	7.4	6.8
G54.0	8.5	8.8	8.9	8.8	8.4	8.0	7.4	6.7
G55.0	8.5	8.8	8.8	8.8	8.4	8.0	7.3	6.6
G56.0	8.5	8.8	8.9	8.8	8.4	8.0	7.3	6.6
G57.0	8.5	8.8	8.9	8.8	8.4	7.9	7.3	6.5
G58.0	8.5	8.8	8.9	8.8	8.4	7.9	7.3	6.5
G59.0	8.5	8.8	8.9	8.8	8.4	7.9	7.2	6.4
G60.0	8.5	8.8	8.9	8.8	8.4	7.9	7.2	6.4
G61.0	8.5	8.8	8.9	8.8	8.4	7.8	7.1	6.3
G62.0	8.5	8.8	8.9	8.7	8.3	7.8	7.1	6.2
G63.0	8.5	8.8	8.9	8.8	8.3	7.8	7.1	6.2
G64.0	8.5	8.8	8.9	8.7	8.3	7.8	7.0	6.1
G65.0	8.5	8.8	8.9	8.7	8.3	7.8	7.0	6.0
G66.0	8.4	8.8	8.9	8.7	8.3	7.7	7.0	6.0
G67.0	8.4	8.8	8.9	8.7	8.3	7.7	6.9	5.9
G68.0	8.4	8.8	8.9	8.7	8.3	7.7	6.9	5.9
G69.0	8.4	8.8	8.9	8.7	8.3	7.7	6.9	5.8
G70.0	8.4	8.8	8.9	8.8	8.3	7.7	6.8	5.8
G71.0	8.4	8.8	8.9	8.7	8.3	7.7	6.8	5.7
G72.0	8.4	8.8	8.9	8.7	8.3	7.7	6.8	5.7
G73.0	8.4	8.8	8.9	8.7	8.3	7.6	6.7	5.6
G74.0	8.4	8.8	8.9	8.7	8.2	7.6	6.7	5.6
G75.0	8.4	8.8	8.9	8.7	8.2	7.6	6.7	5.5
G76.0	8.4	8.8	8.9	8.7	8.2	7.6	6.7	5.5
G77.0	8.4	8.8	8.8	8.7	8.2	7.6	6.7	5.5
G78.0	8.4	8.8	8.8	8.7	8.2	7.5	6.6	5.4
G79.0	8.4	8.8	8.8	8.7	8.2	7.6	6.6	5.4

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0      γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G80.0	8.3	8.7	8.8	8.7	8.2	7.5	6.6	5.4
G81.0	8.3	8.7	8.8	8.7	8.2	7.5	6.6	5.3
G82.0	8.3	8.8	8.8	8.7	8.2	7.5	6.5	5.3
G83.0	8.3	8.7	8.8	8.7	8.2	7.5	6.5	5.3
G84.0	8.3	8.7	8.8	8.7	8.2	7.5	6.5	5.3
G85.0	8.3	8.7	8.8	8.7	8.2	7.5	6.5	5.2
G86.0	8.3	8.7	8.8	8.7	8.2	7.5	6.5	5.2
G87.0	8.3	8.7	8.8	8.7	8.2	7.5	6.5	5.2
G88.0	8.3	8.7	8.8	8.7	8.2	7.5	6.5	5.2
G89.0	8.3	8.7	8.8	8.6	8.1	7.5	6.5	5.2
G90.0	8.3	8.7	8.8	8.6	8.1	7.4	6.5	5.2
G91.0	8.2	8.6	8.4	8.2	7.8	7.4	6.4	5.1
G92.0	7.6	7.7	7.5	7.3	6.9	7.2	6.4	5.1
G93.0	6.7	6.8	6.5	6.3	6.2	7.0	6.4	5.1
G94.0	6.1	6.0	5.9	5.9	6.0	7.0	6.4	5.0
G95.0	5.9	5.9	5.9	5.8	6.0	7.0	6.4	4.9
G96.0	5.9	5.9	5.8	5.8	6.0	7.0	6.5	4.9
G97.0	5.9	5.9	5.9	5.8	6.0	7.0	6.5	4.9
G98.0	5.9	5.9	5.9	5.8	6.0	7.0	6.5	4.9
G99.0	5.9	5.9	5.8	5.8	6.0	7.0	6.5	4.9
G100.0	5.9	5.9	5.8	5.8	6.0	7.0	6.5	4.9
G101.0	5.9	5.8	5.8	5.8	6.0	7.0	6.5	5.0
G102.0	5.9	5.8	5.8	5.8	6.0	7.0	6.5	5.0
G103.0	5.9	5.8	5.8	5.8	6.0	7.0	6.5	5.0
G104.0	5.9	5.8	5.8	5.8	6.0	7.0	6.6	5.0
G105.0	5.9	5.8	5.8	5.8	6.0	7.0	6.6	5.0
G106.0	5.9	5.8	5.8	5.8	6.0	7.0	6.6	5.0
G107.0	5.9	5.8	5.8	5.8	6.1	7.1	6.6	4.8
G108.0	6.1	5.9	5.9	6.0	6.3	7.1	6.5	4.6
G109.0	6.3	6.1	6.2	6.2	6.5	7.0	6.4	4.5
G110.0	6.4	6.3	6.4	6.4	6.5	7.0	6.2	4.4
G111.0	6.4	6.5	6.5	6.4	6.4	6.9	6.0	4.4
G112.0	6.4	6.4	6.4	6.4	6.4	6.7	5.8	4.5
G113.0	6.4	6.4	6.4	6.3	6.2	6.5	5.6	4.6
G114.0	6.4	6.4	6.3	6.2	6.1	6.2	5.5	4.7
G115.0	6.4	6.3	6.2	6.1	6.0	6.0	5.5	4.7
G116.0	6.3	6.3	6.1	5.9	5.8	5.9	5.5	4.7
G117.0	6.3	6.2	5.5	5.1	5.7	5.8	5.5	4.7
G118.0	6.3	5.7	4.7	4.7	5.6	5.7	5.5	4.7
G119.0	6.3	4.8	4.4	4.4	5.5	5.7	5.5	4.6

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0      γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G120.0	6.3	4.6	4.3	4.3	5.5	5.7	5.5	4.6
G121.0	6.1	4.5	4.3	4.2	5.5	5.7	5.4	4.5
G122.0	5.9	4.3	4.3	4.2	5.6	5.7	5.4	4.5
G123.0	5.6	4.1	4.3	4.2	5.6	5.7	5.3	4.4
G124.0	5.3	4.0	4.2	4.1	5.6	5.6	5.3	4.3
G125.0	5.0	3.9	4.2	4.0	5.6	5.6	5.2	4.2
G126.0	4.7	3.7	4.0	3.8	5.4	5.5	5.1	4.2
G127.0	4.6	3.3	3.1	3.7	5.2	5.4	5.1	4.0
G128.0	4.7	3.2	3.1	3.6	5.0	5.3	5.0	4.0
G129.0	4.6	3.2	3.6	3.6	4.8	5.3	4.9	3.8
G130.0	4.4	3.2	3.6	3.5	4.6	5.2	4.8	3.7
G131.0	4.2	3.2	3.5	3.5	4.5	5.1	4.7	3.6
G132.0	4.0	3.2	3.5	3.5	4.4	5.1	4.6	3.5
G133.0	3.8	3.2	3.4	3.4	4.4	5.0	4.5	3.4
G134.0	3.8	3.2	3.3	3.4	4.3	4.9	4.4	3.2
G135.0	3.9	3.2	3.3	3.4	4.2	4.8	4.2	3.1
G136.0	3.9	3.4	3.4	3.4	4.1	4.7	4.1	3.0
G137.0	3.8	3.3	3.3	3.3	4.1	4.6	4.0	2.8
G138.0	3.8	3.2	3.2	3.3	3.9	4.4	3.8	2.6
G139.0	3.7	3.2	3.1	3.3	3.8	4.1	3.6	2.5
G140.0	3.5	3.1	3.0	3.2	3.6	3.8	3.4	2.3
G141.0	3.3	3.0	2.9	3.1	3.4	3.6	3.2	2.2
G142.0	3.1	3.0	2.9	2.9	3.1	3.4	3.0	2.0
G143.0	3.0	2.8	2.7	2.7	3.0	3.2	2.8	1.9
G144.0	2.8	2.7	2.7	2.6	2.8	3.0	2.6	1.8
G145.0	2.6	2.6	2.5	2.5	2.6	2.7	2.4	1.6
G146.0	2.4	2.5	2.4	2.4	2.4	2.5	2.1	1.5
G147.0	2.2	2.4	2.3	2.3	2.3	2.3	2.0	1.3
G148.0	2.0	2.2	2.2	2.2	2.1	2.1	1.8	1.2
G149.0	1.9	2.1	2.1	2.0	2.0	1.9	1.6	1.1
G150.0	1.8	1.9	1.9	1.9	1.8	1.7	1.4	0.9
G151.0	1.6	1.8	1.8	1.8	1.7	1.5	1.3	0.8
G152.0	1.5	1.6	1.7	1.7	1.5	1.4	1.1	0.7
G153.0	1.3	1.4	1.6	1.6	1.4	1.2	1.0	0.6
G154.0	1.1	1.3	1.5	1.4	1.3	1.1	0.9	0.5
G155.0	1.0	1.1	1.4	1.3	1.2	1.0	0.8	0.5
G156.0	0.9	0.9	1.2	1.2	1.0	0.9	0.7	0.4
G157.0	0.8	1.0	1.1	1.1	0.9	0.7	0.6	0.3
G158.0	0.8	1.0	1.0	0.9	0.8	0.6	0.5	0.3
G159.0	0.7	0.8	0.8	0.8	0.7	0.6	0.4	0.2

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C160.0	C170.0	C180.0	C190.0	C200.0	C210.0	C220.0	C230.0
G160.0	0.6	0.7	0.7	0.7	0.6	0.5	0.3	0.2
G161.0	0.5	0.5	0.6	0.6	0.5	0.4	0.3	0.1
G162.0	0.4	0.5	0.5	0.5	0.4	0.3	0.2	0.1
G163.0	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.0
G164.0	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.0
G165.0	0.2	0.2	0.3	0.3	0.2	0.1	0.0	0.0
G166.0	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0
G167.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
G168.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
G169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G174.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G177.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G178.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G179.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G0.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
G1.0	8.6	8.7	8.6	8.7	8.7	8.7	8.7	8.7
G2.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
G3.0	8.6	8.6	8.6	8.6	8.7	8.7	8.7	8.7
G4.0	8.6	8.6	8.6	8.6	8.7	8.7	8.7	8.7
G5.0	8.6	8.6	8.6	8.6	8.6	8.6	8.7	8.7
G6.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.7
G7.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
G8.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
G9.0	8.6	8.6	8.5	8.5	8.6	8.6	8.6	8.6
G10.0	8.5	8.5	8.5	8.5	8.5	8.6	8.6	8.6
G11.0	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.6
G12.0	8.5	8.5	8.4	8.5	8.5	8.5	8.6	8.6
G13.0	8.5	8.4	8.4	8.4	8.4	8.5	8.5	8.6
G14.0	8.4	8.4	8.4	8.4	8.4	8.5	8.5	8.6
G15.0	8.4	8.4	8.3	8.3	8.4	8.4	8.5	8.5
G16.0	8.4	8.3	8.3	8.3	8.3	8.4	8.5	8.5
G17.0	8.3	8.3	8.2	8.3	8.3	8.4	8.4	8.5
G18.0	8.3	8.2	8.2	8.2	8.3	8.3	8.4	8.5
G19.0	8.3	8.2	8.1	8.1	8.2	8.3	8.4	8.5
G20.0	8.2	8.2	8.1	8.1	8.2	8.2	8.3	8.4
G21.0	8.2	8.1	8.0	8.0	8.1	8.2	8.3	8.4
G22.0	8.1	8.1	8.0	8.0	8.1	8.1	8.3	8.4
G23.0	8.1	8.0	7.9	7.9	8.0	8.1	8.2	8.4
G24.0	8.0	8.0	7.9	7.9	7.9	8.0	8.2	8.3
G25.0	8.0	7.9	7.8	7.8	7.9	8.0	8.1	8.3
G26.0	7.9	7.8	7.7	7.7	7.8	7.9	8.1	8.3
G27.0	7.9	7.8	7.7	7.7	7.7	7.9	8.1	8.2
G28.0	7.9	7.7	7.6	7.6	7.7	7.8	8.0	8.2
G29.0	7.8	7.6	7.5	7.5	7.6	7.7	7.9	8.2
G30.0	7.7	7.6	7.4	7.4	7.5	7.7	7.9	8.1
G31.0	7.7	7.5	7.4	7.3	7.4	7.6	7.8	8.1
G32.0	7.6	7.4	7.3	7.3	7.4	7.5	7.8	8.0
G33.0	7.5	7.4	7.2	7.2	7.3	7.5	7.7	8.0
G34.0	7.5	7.3	7.1	7.1	7.2	7.4	7.7	8.0
G35.0	7.4	7.2	7.0	7.0	7.1	7.3	7.6	7.9
G36.0	7.4	7.1	6.9	6.9	7.0	7.2	7.6	7.9
G37.0	7.3	7.0	6.8	6.8	6.9	7.2	7.5	7.9
G38.0	7.2	6.9	6.7	6.7	6.8	7.1	7.4	7.8
G39.0	7.2	6.9	6.6	6.6	6.7	7.0	7.4	7.8

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G40.0	7.1	6.8	6.5	6.5	6.6	6.9	7.3	7.7
G41.0	7.0	6.7	6.4	6.4	6.5	6.8	7.3	7.7
G42.0	6.9	6.6	6.3	6.3	6.4	6.7	7.2	7.6
G43.0	6.9	6.5	6.2	6.1	6.3	6.7	7.1	7.6
G44.0	6.8	6.4	6.1	6.0	6.2	6.6	7.0	7.5
G45.0	6.7	6.3	5.9	5.9	6.1	6.5	7.0	7.5
G46.0	6.6	6.2	5.8	5.8	6.0	6.4	6.9	7.4
G47.0	6.5	6.1	5.7	5.6	5.9	6.3	6.8	7.4
G48.0	6.5	6.0	5.6	5.5	5.8	6.2	6.8	7.3
G49.0	6.4	5.9	5.5	5.4	5.7	6.1	6.7	7.3
G50.0	6.3	5.7	5.3	5.3	5.5	6.0	6.6	7.2
G51.0	6.2	5.6	5.2	5.1	5.4	5.9	6.5	7.2
G52.0	6.1	5.5	5.1	5.0	5.3	5.8	6.4	7.1
G53.0	6.1	5.4	4.9	4.8	5.1	5.7	6.4	7.1
G54.0	6.0	5.3	4.8	4.7	5.0	5.6	6.3	7.0
G55.0	5.9	5.2	4.6	4.6	4.9	5.5	6.2	7.0
G56.0	5.8	5.1	4.5	4.4	4.8	5.4	6.1	6.9
G57.0	5.7	5.0	4.4	4.3	4.6	5.2	6.0	6.9
G58.0	5.6	4.8	4.2	4.1	4.5	5.1	6.0	6.8
G59.0	5.5	4.7	4.1	4.0	4.3	5.0	5.9	6.7
G60.0	5.5	4.6	3.9	3.8	4.2	4.9	5.8	6.7
G61.0	5.4	4.5	3.8	3.6	4.1	4.8	5.8	6.6
G62.0	5.3	4.4	3.6	3.5	3.9	4.7	5.7	6.6
G63.0	5.2	4.3	3.5	3.3	3.8	4.6	5.6	6.5
G64.0	5.1	4.1	3.4	3.2	3.6	4.5	5.5	6.5
G65.0	5.0	4.0	3.2	3.0	3.5	4.4	5.4	6.4
G66.0	4.9	3.9	3.1	2.8	3.4	4.3	5.4	6.4
G67.0	4.9	3.8	2.9	2.7	3.2	4.2	5.3	6.3
G68.0	4.8	3.7	2.8	2.5	3.1	4.1	5.2	6.3
G69.0	4.7	3.6	2.6	2.3	3.0	4.0	5.1	6.2
G70.0	4.6	3.4	2.5	2.2	2.8	3.9	5.1	6.2
G71.0	4.5	3.3	2.3	2.0	2.7	3.8	5.0	6.1
G72.0	4.4	3.2	2.2	1.9	2.5	3.7	4.9	6.1
G73.0	4.4	3.1	2.0	1.7	2.4	3.6	4.9	6.0
G74.0	4.3	3.0	1.9	1.5	2.3	3.5	4.8	6.0
G75.0	4.2	2.9	1.8	1.4	2.2	3.4	4.7	6.0
G76.0	4.2	2.8	1.6	1.2	2.0	3.3	4.7	5.9
G77.0	4.1	2.7	1.5	1.1	1.9	3.2	4.6	5.9
G78.0	4.1	2.6	1.4	0.9	1.8	3.1	4.6	5.9
G79.0	4.0	2.5	1.3	0.8	1.7	3.0	4.5	5.8

Test Type : Type C      Test Distance : 1.325 m  
Test Device : Lisun LSG-1890B  
Test Lab : Lisun Instruments Limited  
Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
Temperature : 25.0°C      Humidity : 65.0%

Review By :



Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G80.0	3.9	2.4	1.1	0.6	1.5	3.0	4.5	5.8
G81.0	3.9	2.4	1.0	0.5	1.4	2.9	4.4	5.8
G82.0	3.9	2.3	0.9	0.4	1.3	2.8	4.4	5.7
G83.0	3.8	2.2	0.8	0.3	1.2	2.8	4.4	5.7
G84.0	3.8	2.2	0.7	0.2	1.2	2.7	4.3	5.7
G85.0	3.8	2.1	0.7	0.1	1.1	2.7	4.3	5.7
G86.0	3.7	2.1	0.6	0.0	1.1	2.7	4.3	5.7
G87.0	3.7	2.1	0.6	0.0	1.0	2.6	4.3	5.7
G88.0	3.7	2.1	0.5	0.0	1.0	2.6	4.2	5.6
G89.0	3.7	2.0	0.5	0.0	1.0	2.6	4.2	5.6
G90.0	3.7	2.0	0.5	0.0	0.9	2.6	4.2	5.6
G91.0	3.6	1.8	0.4	0.0	0.7	2.4	4.2	5.6
G92.0	3.4	1.4	0.2	0.0	0.4	2.1	4.1	5.6
G93.0	3.2	1.0	0.1	0.0	0.2	1.7	3.9	5.6
G94.0	2.9	0.7	0.0	0.0	0.0	1.4	3.8	5.6
G95.0	2.7	0.6	0.0	0.0	0.0	1.2	3.6	5.6
G96.0	2.7	0.6	0.0	0.0	0.0	1.2	3.5	5.6
G97.0	2.7	0.6	0.0	0.0	0.0	1.2	3.5	5.5
G98.0	2.7	0.6	0.0	0.0	0.0	1.2	3.5	5.5
G99.0	2.7	0.6	0.0	0.0	0.0	1.2	3.4	5.5
G100.0	2.7	0.6	0.0	0.0	0.0	1.1	3.4	5.5
G101.0	2.8	0.7	0.0	0.0	0.0	1.1	3.4	5.4
G102.0	2.8	0.8	0.0	0.0	0.0	1.1	3.3	5.4
G103.0	2.8	0.8	0.1	0.0	0.0	1.2	3.3	5.3
G104.0	2.8	0.9	0.1	0.0	0.0	1.2	3.3	5.3
G105.0	2.7	0.9	0.2	0.0	0.0	1.2	3.2	5.2
G106.0	2.7	0.9	0.2	0.0	0.0	1.2	3.2	5.2
G107.0	2.7	0.9	0.2	0.0	0.0	1.2	3.1	5.1
G108.0	2.8	0.9	0.2	0.0	0.1	1.2	3.1	5.0
G109.0	2.8	0.9	0.2	0.0	0.1	1.2	3.1	5.0
G110.0	2.9	0.9	0.2	0.0	0.0	1.2	3.1	4.8
G111.0	2.9	0.9	0.2	0.0	0.0	1.1	3.1	4.8
G112.0	2.9	1.0	0.2	0.0	0.0	1.1	3.1	4.7
G113.0	3.0	1.0	0.2	0.0	0.0	1.1	3.0	4.6
G114.0	3.0	1.1	0.2	0.0	0.0	1.0	2.9	4.5
G115.0	3.0	1.2	0.2	0.0	0.0	1.0	2.9	4.4
G116.0	3.0	1.2	0.2	0.0	0.0	0.9	2.8	4.3
G117.0	3.0	1.2	0.1	0.0	0.0	0.8	2.7	4.2
G118.0	2.9	1.2	0.1	0.0	0.0	0.8	2.6	4.1
G119.0	2.9	1.2	0.1	0.0	0.0	0.7	2.5	4.0

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G120.0	2.9	1.2	0.1	0.0	0.0	0.7	2.4	3.9
G121.0	2.9	1.1	0.1	0.0	0.0	0.6	2.3	3.8
G122.0	2.8	1.1	0.0	0.0	0.0	0.5	2.1	3.6
G123.0	2.8	1.1	0.0	0.0	0.0	0.5	2.0	3.5
G124.0	2.7	1.0	0.0	0.0	0.0	0.4	1.9	3.3
G125.0	2.6	1.0	0.0	0.0	0.0	0.4	1.7	3.2
G126.0	2.6	0.9	0.0	0.0	0.0	0.3	1.6	3.1
G127.0	2.5	0.9	0.0	0.0	0.0	0.3	1.4	2.9
G128.0	2.4	0.8	0.0	0.0	0.0	0.2	1.3	2.7
G129.0	2.3	0.8	0.0	0.0	0.0	0.2	1.2	2.6
G130.0	2.2	0.7	0.0	0.0	0.0	0.1	1.1	2.4
G131.0	2.1	0.7	0.0	0.0	0.0	0.1	1.0	2.2
G132.0	2.0	0.6	0.0	0.0	0.0	0.0	0.9	2.0
G133.0	1.9	0.6	0.0	0.0	0.0	0.0	0.7	1.9
G134.0	1.8	0.5	0.0	0.0	0.0	0.0	0.6	1.7
G135.0	1.7	0.5	0.0	0.0	0.0	0.0	0.6	1.5
G136.0	1.6	0.5	0.0	0.0	0.0	0.0	0.5	1.4
G137.0	1.5	0.4	0.0	0.0	0.0	0.0	0.4	1.2
G138.0	1.4	0.4	0.0	0.0	0.0	0.0	0.3	1.1
G139.0	1.3	0.3	0.0	0.0	0.0	0.0	0.3	1.0
G140.0	1.2	0.3	0.0	0.0	0.0	0.0	0.2	0.8
G141.0	1.1	0.3	0.0	0.0	0.0	0.0	0.1	0.7
G142.0	1.0	0.2	0.0	0.0	0.0	0.0	0.1	0.6
G143.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.5
G144.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.4
G145.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.3
G146.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.2
G147.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.2
G148.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1
G149.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G150.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G151.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G152.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G153.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G154.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G155.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G156.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G157.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G158.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G159.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C240.0	C250.0	C260.0	C270.0	C280.0	C290.0	C300.0	C310.0
G160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G161.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G162.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G164.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G166.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G174.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G177.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G178.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G179.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0
G0.0	8.7	8.7	8.7	8.7
G1.0	8.7	8.7	8.7	8.7
G2.0	8.7	8.7	8.7	8.7
G3.0	8.7	8.7	8.7	8.7
G4.0	8.7	8.7	8.7	8.7
G5.0	8.7	8.7	8.7	8.7
G6.0	8.7	8.7	8.7	8.7
G7.0	8.7	8.7	8.7	8.7
G8.0	8.7	8.7	8.7	8.7
G9.0	8.7	8.7	8.7	8.7
G10.0	8.7	8.7	8.7	8.7
G11.0	8.7	8.7	8.7	8.7
G12.0	8.6	8.7	8.7	8.7
G13.0	8.6	8.7	8.7	8.7
G14.0	8.6	8.7	8.7	8.8
G15.0	8.6	8.7	8.7	8.7
G16.0	8.6	8.7	8.7	8.8
G17.0	8.6	8.7	8.7	8.8
G18.0	8.6	8.7	8.7	8.8
G19.0	8.6	8.7	8.7	8.8
G20.0	8.6	8.7	8.7	8.8
G21.0	8.5	8.7	8.7	8.8
G22.0	8.5	8.6	8.7	8.8
G23.0	8.5	8.6	8.7	8.8
G24.0	8.5	8.6	8.7	8.8
G25.0	8.5	8.6	8.7	8.8
G26.0	8.5	8.6	8.7	8.8
G27.0	8.4	8.6	8.7	8.8
G28.0	8.4	8.6	8.7	8.8
G29.0	8.4	8.6	8.7	8.8
G30.0	8.4	8.6	8.7	8.8
G31.0	8.3	8.6	8.7	8.8
G32.0	8.3	8.6	8.7	8.8
G33.0	8.3	8.5	8.7	8.8
G34.0	8.2	8.5	8.7	8.9
G35.0	8.3	8.5	8.7	8.9
G36.0	8.2	8.5	8.7	8.9
G37.0	8.2	8.5	8.7	8.9
G38.0	8.2	8.5	8.7	8.9
G39.0	8.1	8.5	8.7	8.9

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0			
G40.0	8.1	8.5	8.7	8.8			
G41.0	8.1	8.4	8.7	8.9			
G42.0	8.1	8.4	8.7	8.9			
G43.0	8.0	8.4	8.7	8.9			
G44.0	8.0	8.4	8.7	8.9			
G45.0	8.0	8.4	8.7	8.9			
G46.0	7.9	8.4	8.7	8.9			
G47.0	7.9	8.3	8.7	8.9			
G48.0	7.9	8.3	8.7	8.9			
G49.0	7.8	8.3	8.7	8.9			
G50.0	7.8	8.3	8.7	8.9			
G51.0	7.8	8.3	8.6	8.9			
G52.0	7.7	8.3	8.6	8.9			
G53.0	7.7	8.2	8.6	8.8			
G54.0	7.7	8.2	8.6	8.9			
G55.0	7.6	8.2	8.6	8.9			
G56.0	7.6	8.2	8.6	8.9			
G57.0	7.6	8.2	8.6	8.9			
G58.0	7.5	8.1	8.6	8.9			
G59.0	7.5	8.1	8.6	8.9			
G60.0	7.5	8.1	8.6	8.8			
G61.0	7.4	8.1	8.6	8.8			
G62.0	7.4	8.1	8.6	8.8			
G63.0	7.4	8.1	8.6	8.8			
G64.0	7.3	8.0	8.5	8.8			
G65.0	7.3	8.0	8.5	8.8			
G66.0	7.3	8.0	8.5	8.8			
G67.0	7.2	8.0	8.5	8.8			
G68.0	7.2	8.0	8.5	8.8			
G69.0	7.2	8.0	8.5	8.8			
G70.0	7.2	7.9	8.5	8.8			
G71.0	7.1	7.9	8.5	8.8			
G72.0	7.1	7.9	8.5	8.8			
G73.0	7.1	7.9	8.5	8.8			
G74.0	7.1	7.9	8.5	8.8			
G75.0	7.0	7.9	8.5	8.8			
G76.0	7.0	7.9	8.5	8.8			
G77.0	7.0	7.8	8.4	8.8			
G78.0	7.0	7.8	8.4	8.8			
G79.0	6.9	7.8	8.4	8.8			

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0			
G80.0	6.9	7.8	8.4	8.8			
G81.0	6.9	7.8	8.4	8.7			
G82.0	6.9	7.8	8.4	8.7			
G83.0	6.9	7.7	8.4	8.7			
G84.0	6.8	7.7	8.4	8.7			
G85.0	6.8	7.7	8.4	8.7			
G86.0	6.8	7.7	8.4	8.7			
G87.0	6.8	7.7	8.4	8.7			
G88.0	6.8	7.7	8.4	8.7			
G89.0	6.8	7.7	8.4	8.7			
G90.0	6.8	7.7	8.3	8.7			
G91.0	6.8	7.4	7.8	8.3			
G92.0	6.8	6.8	7.0	7.4			
G93.0	6.8	6.4	6.1	6.3			
G94.0	6.8	6.3	5.7	5.8			
G95.0	6.8	6.3	5.7	5.8			
G96.0	6.8	6.3	5.7	5.8			
G97.0	6.8	6.3	5.7	5.8			
G98.0	6.8	6.3	5.7	5.8			
G99.0	6.7	6.3	5.7	5.8			
G100.0	6.7	6.2	5.7	5.8			
G101.0	6.7	6.2	5.6	5.7			
G102.0	6.6	6.2	5.6	5.7			
G103.0	6.6	6.1	5.6	5.7			
G104.0	6.5	6.1	5.5	5.7			
G105.0	6.5	6.0	5.5	5.6			
G106.0	6.4	6.0	5.5	5.6			
G107.0	6.3	6.0	5.4	5.5			
G108.0	6.3	6.1	5.4	5.5			
G109.0	6.2	6.1	5.6	5.6			
G110.0	6.1	6.1	5.7	5.7			
G111.0	6.0	6.0	5.7	5.9			
G112.0	5.9	6.0	5.6	5.9			
G113.0	5.8	5.9	5.6	5.8			
G114.0	5.7	5.8	5.5	5.7			
G115.0	5.6	5.7	5.4	5.6			
G116.0	5.5	5.6	5.3	5.5			
G117.0	5.4	5.5	5.2	5.0			
G118.0	5.3	5.4	5.2	4.1			
G119.0	5.1	5.3	5.1	3.6			

Test Type : Type C      Test Distance : 1.325 m

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Test Device : Lisun LSG-1890B

Temperature : 25.0°C

Humidity : 65.0%

Test Lab : Lisun Instruments Limited

Test By : JACK

Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0
G120.0	5.0	5.1	5.0	3.5
G121.0	4.9	4.8	4.9	3.4
G122.0	4.7	4.6	4.6	3.3
G123.0	4.6	4.5	4.3	3.0
G124.0	4.5	4.5	4.3	2.7
G125.0	4.3	4.4	4.2	2.5
G126.0	4.1	4.4	3.9	2.4
G127.0	4.0	4.3	3.4	2.3
G128.0	3.8	4.1	3.3	2.2
G129.0	3.7	3.9	3.3	2.3
G130.0	3.5	3.7	3.2	2.6
G131.0	3.4	3.5	3.0	2.7
G132.0	3.2	3.3	2.9	2.6
G133.0	3.0	3.1	2.8	2.6
G134.0	2.8	3.0	2.7	2.5
G135.0	2.6	2.9	2.5	2.5
G136.0	2.4	2.7	2.4	2.4
G137.0	2.2	2.6	2.3	2.3
G138.0	2.0	2.4	2.1	2.2
G139.0	1.8	2.2	2.0	2.1
G140.0	1.6	2.0	1.9	2.0
G141.0	1.4	1.7	1.8	1.9
G142.0	1.2	1.5	1.6	1.8
G143.0	1.0	1.3	1.4	1.6
G144.0	0.9	1.2	1.3	1.5
G145.0	0.7	1.0	1.2	1.4
G146.0	0.6	0.9	1.0	1.2
G147.0	0.5	0.7	0.9	1.1
G148.0	0.4	0.6	0.8	1.0
G149.0	0.3	0.5	0.7	0.8
G150.0	0.2	0.4	0.6	0.7
G151.0	0.2	0.3	0.5	0.6
G152.0	0.1	0.3	0.4	0.5
G153.0	0.0	0.2	0.3	0.4
G154.0	0.0	0.1	0.3	0.3
G155.0	0.0	0.1	0.2	0.3
G156.0	0.0	0.0	0.1	0.2
G157.0	0.0	0.0	0.0	0.1
G158.0	0.0	0.0	0.0	0.0
G159.0	0.0	0.0	0.0	0.0

 Test Type : Type C      Test Distance : 1.325 m  
 Test Device : Lisun LSG-1890B  
 Test Lab : Lisun Instruments Limited  
 Test By : JACK

 C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0  
 Temperature : 25.0°C      Humidity : 65.0%  
 Review By :

Report No. : 11

Test Time : 2023-11-17 18:24:07

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**Light Distribution Data**

Unit: mW

G\C	C320.0	C330.0	C340.0	C350.0			
G160.0	0.0	0.0	0.0	0.0			
G161.0	0.0	0.0	0.0	0.0			
G162.0	0.0	0.0	0.0	0.0			
G163.0	0.0	0.0	0.0	0.0			
G164.0	0.0	0.0	0.0	0.0			
G165.0	0.0	0.0	0.0	0.0			
G166.0	0.0	0.0	0.0	0.0			
G167.0	0.0	0.0	0.0	0.0			
G168.0	0.0	0.0	0.0	0.0			
G169.0	0.0	0.0	0.0	0.0			
G170.0	0.0	0.0	0.0	0.0			
G171.0	0.0	0.0	0.0	0.0			
G172.0	0.0	0.0	0.0	0.0			
G173.0	0.0	0.0	0.0	0.0			
G174.0	0.0	0.0	0.0	0.0			
G175.0	0.0	0.0	0.0	0.0			
G176.0	0.0	0.0	0.0	0.0			
G177.0	0.0	0.0	0.0	0.0			
G178.0	0.0	0.0	0.0	0.0			
G179.0	0.0	0.0	0.0	0.0			
G180.0	0.0	0.0	0.0	0.0			

Test Type : Type C      Test Distance : 1.325 m

Test Device : Lisun LSG-1890B

Test Lab : Lisun Instruments Limited

Test By : JACK

C Plane (°): 0.0-360.0:10.0    γ (°): 0.0-180.0:1.0

Temperature : 25.0°C

Humidity : 65.0%

Review By :